










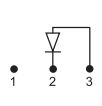
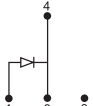
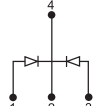

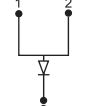
Rectifiers

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General Purpose Rectifiers

1.0 to 5.0A
200 to 1000V

Package dimensions shown are maximum values in mm.




I _O (AMPS)	1.0					2.0		3.0	5.0	
	@ T _A (°C) **T _L	75**	25	25	25	100**	75	50	**120	75
I _{FSM} (AMPS)	30	10	10	10	30	30	60	70	200	150
CASE	 3.95 x 1.95 x 1.08 SOD-123F	 4.7 x 4.5 x 1.7 SOT-89	 6.7 x 7.3 x 1.8 SOT-223		 5.59 x 2.92 x 2.62 SMA	 5.59 x 3.81 x 2.44 SMB	 4.9 x 2.6 x 1.1 SMAFL	 8.13 x 6.22 x 2.62 SMC	 6.65 x 4.35 x 1.2 TLM364	
	SINGLE	SINGLE	SINGLE	DUAL COMMON CATHODE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE
V _{RRM} (VOLTS)										
200	CMMR1-02	-	-	-	CMR1-02M	CMR1-02	CMR2-02	-	CMR3-02	-
400	CMMR1-04	CXR1-04	CZR1-04	CZR1-04C†	CMR1-04M	CMR1-04	CMR2-04	CMR2-04MFL	CMR3-04	-
600	CMMR1-06	-	-	-	CMR1-06M	CMR1-06	CMR2-06	CMR2-06MFL	CMR3-06	CTLR5-06
800	-	-	-	-	-	-	-	CMR2-08MFL	-	-
1000	CMMR1-10	-	-	-	CMR1-10M	CMR1-10	CMR2-10	CMR2-10MFL	CMR3-10	-
V _F MAX @ I _F = I _O	1.1V	1.2V	1.2V	1.2V	1.1V	1.1V	1.1V	1.1V	1.2V	1.0V
I _R MAX @ V _{RRM}	10µA	1.0µA	1.0µA	1.0µA	5.0µA	10µA	5.0µA	1.0µA	5.0µA	5.0µA
PINOUT										

† Dual Common Cathode (Ratings Per Diode)

Fast Recovery Rectifiers

1.0A 200 to 1000V








Package dimensions shown are maximum values in mm.

I_O (AMPS)	1.0	
@ T_A (°C) ** T_L	75**	120**
I_{FSM} (AMPS)	30	30
CASE	 3.95 x 1.95 x 1.08 SOD-123F	 5.59 x 2.92 x 2.62 SMA
	SINGLE	SINGLE
V_{RRM} (VOLTS)		
200	CMMR1F-02	CMR1F-02M
400	CMMR1F-04	CMR1F-04M
600	CMMR1F-06	CMR1F-06M
800	CMMR1F-08	-
1000	-	CMR1F-10M
V_F MAX @ $I_F = I_O$	1.3V	1.3V
I_R MAX @ V_{RRM}	10 μ A	5.0 μ A
t_{rr} (200V)	150ns	150ns
t_{rr} (400V)	150ns	150ns
t_{rr} (600V)	250ns	250ns
t_{rr} (800V)	500ns	-
t_{rr} (1000V)	-	500ns
PINOUT		

Ultra Fast Recovery Rectifiers

1.0 to 3.0A
100 to 1300V







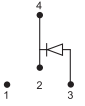

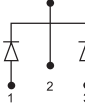
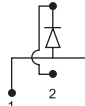
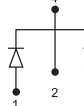
Package dimensions shown are maximum values in mm.

I _O (AMPS)	1.0					2.0	3.0	
@ T _A (°C) *T _C **T _L	90**	75	75	75	120**	50	75	75
I _{FSM} (AMPS)	30	30	30	30	30	50	100	150
CASE	 3.95 x 1.95 x 1.08 SOD-123F	 5.59 x 2.92 x 2.62 SMA		 5.59 x 3.81 x 2.44 SMB	 5.5 x 3.7 x 1.1 SMBFL	 5.59 x 3.81 x 2.44 SMB	 8.13 x 6.22 x 2.62 SMC	
	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE
V _{RRM} (VOLTS)								
100	–	CMR1U-01M	–	CMR1U-01	–	CMR2U-01	CMR3U-01M	CMR3U-01
200	CMMR1U-02	CMR1U-02M	–	CMR1U-02	CMR1U-02FL	CMR2U-02	CMR3U-02M	CMR3U-02
400	CMMR1U-04	CMR1U-04M	–	CMR1U-04	CMR1U-04FL	CMR2U-04	CMR3U-04M	CMR3U-04
600	CMMR1U-06	CMR1U-06M	–	CMR1U-06	CMR1U-06FL	CMR2U-06	CMR3U-06M	CMR3U-06
800	CMMR1U-08	–	–	–	–	–	–	–
1000	–	CMR1U-10M	–	CMR1U-10	–	–	CMR3U-10M	CMR3U-10
1300	–	–	CMR1U-13M	–	–	–	–	–
V _F MAX @ I _F = I _O								
100	–	1.0V	–	1.0V	–	1.0V	1.0V	1.0V
200	1.0V	1.0V	–	1.0V	1.0V	1.0V	1.0V	1.0V
400	1.4V	1.25V	–	1.25V	1.3V	1.25V	1.25V	1.25V
600	1.7V	1.4V	–	1.4V	1.7V	1.4V	1.4V	1.4V
800	1.7V	–	–	–	–	–	–	–
1000	–	1.7V	–	1.7V	–	–	1.7V	1.7V
1300	–	–	1.9V	–	–	–	–	–
I _R MAX @ V _{RRM}	1.0µA	5.0µA	5.0µA	5.0µA	1.0µA	10µA	5.0µA	5.0µA
t _{rr} (100V)	–	35ns	–	50ns	–	50ns	50ns	50ns
t _{rr} (200V)	50ns	35ns	–	50ns	50ns	50ns	50ns	50ns
t _{rr} (400V)	50ns	50ns	–	50ns	50ns	50ns	50ns	50ns
t _{rr} (600V)	100ns	75ns	–	100ns	100ns	50ns	100ns	100ns
t _{rr} (800V)	100ns	–	–	–	–	–	–	–
t _{rr} (1000V)	–	100ns	–	100ns	–	–	100ns	100ns
t _{rr} (1300V)	–	–	75ns	–	–	–	–	–
PINOUT								

Ultra Fast Recovery Rectifiers (continued)

4.0 to 16A
200 to 800V

Package dimensions shown are maximum values in mm.





I_O (AMPS)	4.0	5.0	6.0	8.0	10	16
@ T_A (°C) * T_C	130*	55	130*	100*	100*	100*
I_{FSM} (AMPS)	70	175	70	125	100	125
CASE	 10.73 x 6.81 x 2.75 DPAK	 8.13 x 6.22 x 2.62 SMC	 10.73 x 6.81 x 2.75 DPAK	 16.6 x 10.4 x 4.8 D ² PAK	 10.73 x 6.81 x 2.75 DPAK	 16.6 x 10.4 x 4.8 D ² PAK
	SINGLE	SINGLE	DUAL COMMON CATHODE	SINGLE	SINGLE	DUAL COMMON CATHODE
V_{RRM} (VOLTS)						
200	CUD3-02	CMR5U-02	CUD6-02C	CUDD8-02	CUD10-02	CUDD16-02C
400	–	CMR5U-04	–	CUDD8-04	CUD10-04	CUDD16-04C
600	–	–	–	–	CUD10-06	–
800	–	CMR5U-08	–	CUDD8-08	–	CUDD16-08C
V_F MAX @ $I_F = I_O$		–	–	–	–	–
200	1.25V @ 12A	1.0V	1.25† @ 10A	0.975V	0.95V	0.975V† @ 8.0A
400	–	1.3V	–	1.3V	1.3V	1.3V† @ 8.0A
600	–	–	–	–	1.7V	–
800	–	1.7V	–	1.5V	–	1.5V† @ 8.0A
I_R MAX @ V_{RRM}	20μA	10μA	20μA †	5μA	10μA	5μA†
t_{rr} (200V)	35ns	50ns	35ns†	25ns	35ns	25ns†
t_{rr} (400V)		50ns	–	25ns	35ns	25ns†
t_{rr} (600V)		–	–	–	35ns	–
t_{rr} (800V)		100ns	–	50ns	–	50ns†
PINOUT						

† Electrical Characteristic Per Diode

Super Fast Recovery Rectifiers

1.0 to 3.0A
100 to 600V

Package dimensions shown are maximum values in mm.

I_O (AMPS)	1.0		2.0	3.0
@ T_A (°C) T_L	110**	25	110**	75**
I_{FSM} (AMPS)	30	30	50	100
CASE	 3.95 x 1.95 x 1.08	 5.59 x 3.81 x 2.44		 8.13 x 6.22 x 2.62
	SOD-123F	SMB		SMC
	SINGLE	SINGLE	SINGLE	SINGLE
V_{RRM} (VOLTS)				
100	-	CMR1S-01	-	CMR3S-01
200	CMMR1S-02	CMR1S-02	CMR2S-02	CMR3S-02
400	-	-	CMR2S-04	CMR3S-04
600	-	-	CMR2S-06	CMR3S-06
V_F MAX @ $I_F = I_O$				
100	-	0.95V	-	0.95V
200	0.95V	0.95V	0.95V	0.95V
400	-	-	1.25V	1.25V
600	-	-	1.70V	1.70V
I_R MAX @ V_{RRM}	10μA	5.0μA	1.0μA	5.0μA
t_{rr}	35ns	35ns	30ns	35ns
PINOUT				

Hyper Fast Recovery Rectifiers

1.0 to 10A
400V, 600V






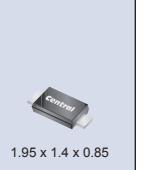
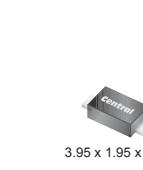
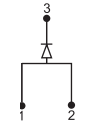
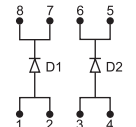
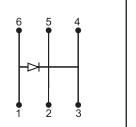
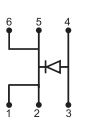


Package dimensions shown are maximum values in mm.

I_O (AMPS)	1.0	5.0	8.0	10
@ T_A (°C) * T_C ** T_L	**120	**75	*100	**90
I_{FSM} (AMPS)	30	100	100	150
CASE	 4.9 x 2.6 x 1.1 SMAFL	 8.13 x 6.22 x 2.62 SMC	 10.73 x 6.81 x 2.75 DPAK	 6.65 x 4.35 x 1.2 TLM364
	SINGLE	SINGLE	SINGLE	SINGLE
V_{RRM} (VOLTS)				
400	CMR1H-04MFL	—	—	—
600	—	CMR5H-06	CHD8-06	CTLHR10-06
V_F TYP @ $I_F = I_O$	1.1V	1.55V	1.9V	1.6V
V_F MAX @ $I_F = I_O$	1.25V	1.7V	2.2V	1.7V
I_R MAX @ V_{RRM}	1.0 μ A	1.0 μ A	10 μ A	10 μ A
t_{rr} TYP	20ns	20ns	22ns	22ns
t_{rr} MAX	25ns	22ns	25ns	25ns
PINOUT				

Schottky Rectifiers

1.0A
20 to 100V






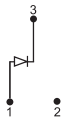
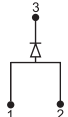

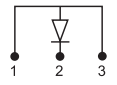


Package dimensions shown are maximum values in mm.

I_O (AMPS)	1.0							
@ T_A (°C) ** T_L †† T_J	25	25	25	25	25	110**	75**	25††
I_{FSM} (AMPS)	10	10	10	6.0	10	20	30	50
CASE	 2.05 x 2.05 x 0.6 TLM322S	 3.05 x 2.05 x 1.05 TLM832DS	 3.05 x 2.05 x 1.05 TLM832DS	 2.15 x 1.65 x 0.4 TLM621H	 1.7 x 1.7 x 0.6 SOT-563	 1.95 x 1.4 x 0.85 SOD-323FL	 3.95 x 1.95 x 1.08 SOD-123F	
	SINGLE	DUAL ISOLATED	DUAL ISOLATED	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE
V_{RRM} (VOLTS)								
20	-	-	-	-	-	-	CMMSH1-20	-
30	-	-	-	-	-	CMDSH1-3	-	-
40	CTLSH1-40M322S	CTLSH1-40M832DS	-	CTLSH1-40M621H	CMLSH1-40	CMDSH1-4	CMMSH1-40	CMMSH1-40L
50	-	-	CTLSH1-50M832DS	-	-	-	-	-
60	-	-	-	-	-	CMDSH1-6	CMMSH1-60	-
100	-	-	-	-	-	-	CMMSH1-100	-
V_F MAX @ $I_F = I_O$								
20	-	-	-	-	-	-	0.45V	-
30	-	-	-	-	-	0.52V	0.45V	-
40	0.55V	0.55V	-	0.60V	0.55V	0.58V	0.55V	0.45V
50	-	-	0.55V	-	-	-	-	-
60	-	-	-	-	-	0.68V	0.70V	-
100	-	-	-	-	-	-	0.85V	-
I_R MAX @ V_{RRM}	50µA @ 15V	50µA @ 15V	500µA	50µA @ 15V	50µA @ 15V	100µA	500µA	500µA
PINOUT								

Schottky Rectifiers (continued)

1.0A 20 to 200V

Package dimensions shown are maximum values in mm.








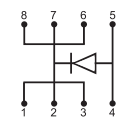

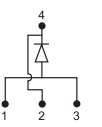


I_O (AMPS)	1.0								
@ T_A (°C) ** T_L †† T_J	25	25	25	75**	25	75	25	25	
I_{FSM} (AMPS)	12	20	20	30	30	30	10	30	
CASE	 3.00 x 2.50 x 1.0 SOT-23F			 5.59 x 2.92 x 2.62 SMA		 5.59 x 3.81 x 2.44 SMB		 4.7 x 4.5 x 1.7 SOT-89	 5.59 x 2.92 x 2.62 SMA
V_{RRM} (VOLTS)	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE		
20	-	-	-	CMSH1-20M	CMSH1-20ML	CMSH1-20	-	-	
30	-	-	-	-	-	-	-	-	
40	CMP SH1-4	CMP SH1-4L	CMP SH1-4LE	CMSH1-40M	CMSH1-40ML	CMSH1-40	CXSH-4	CMSH1-40HE	
60	-	-	-	CMSH1-60M†	-	CMSH1-60	-	CMSH1-60HE	
80	-	-	-	-	-	-	-	CMSH1-80HE	
100	-	-	-	CMSH1-100M†	-	CMSH1-100	-	CMSH1-100HE	
150	-	-	-	-	-	-	-	CMSH1-150HE	
200	-	-	-	-	-	-	-	CMSH1-200HE	
V_F MAX @ $I_F = I_O$									
20	-	-	-	0.50V	0.38V	0.55V	-	-	
30	-	-	-	-	-	-	-	-	
40	0.55V	0.39V	0.4V	0.50V	0.40V	0.55V	0.55V	0.70V	
60	-	-	-	0.70V	-	0.70V	-	0.74V	
80	-	-	-	-	-	-	-	0.80V	
100	-	-	-	0.85V	-	0.85V	-	0.80V	
150	-	-	-	-	-	-	-	0.90V	
200	-	-	-	-	-	-	-	0.90V	
I_R MAX @ V_{RRM}	100µA @ 30V	1.5mA @ 30V	900µA @ 40V	500µA	500µA	500µA	1.0mA	50µA	
PINOUT									

† $T_L = 100^\circ\text{C}$ for 60V & 100V

Schottky Rectifiers (continued)

2.0A 20 to 100V

Package dimensions shown are maximum values in mm.


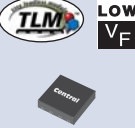







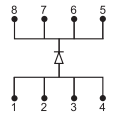

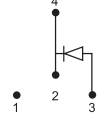

I_O (AMPS)	2.0						
@ T_A (°C) †† T_L ††† T_J	25	25††	75**	55	105**	25	125**
I_{FSM} (AMPS)	15	50	50	50	50	10	50
CASE	 3.1 x 2.1 x 1.0 TLM832	 3.95 x 1.95 x 1.08 SOD-123F	 5.59 x 2.92 x 2.62 SMA	 5.59 x 3.81 x 2.44 SMB		 6.7 x 7.3 x 1.8 SOT-223	 4.9 x 2.6 x 1.1 SMAFL
	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE
V_{RRM} (VOLTS)							
20	-	-	CMSH2-20M	CMSH2-20	CMSH2-20L	-	-
40	CTLSH2-40M832	CMMSH2-40	CMSH2-40M	CMSH2-40	CMSH2-40L	CZSH-4	CMSH2-40FL
60	-	-	CMSH2-60M	CMSH2-60		-	-
100	-	-	CMSH2-100M	CMSH2-100		-	-
V_F MAX @ $I_F = I_O$							
20	-	-	0.55V	0.50V	0.40V	-	-
40	0.50V	0.50V	0.55V	0.50V	0.40V	0.60V	0.50V
60	-	-	0.70V	0.70V		-	-
100	-	-	0.85V	0.85V		-	-
I_R MAX @ V_{RRM}	200µA	500µA	500µA	500µA	500µA	1.0mA	100µA
PINOUT							

† $T_L = 100^\circ\text{C}$ for 60V & 100V

Schottky Rectifiers (continued)

3.0A 20 to 200V

Package dimensions shown are maximum values in mm.









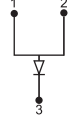
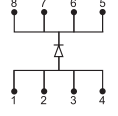


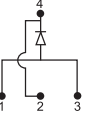
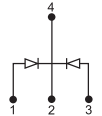
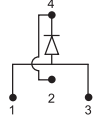
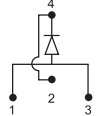
I _O (AMPS)	3.0								
@ T _A (°C) *T _C **T _L	25	25	75**	75**	75	120*	125**	125**	110**
I _{FSM} (AMPS)	25	25	80	80	150	75 50†	80	80	80
CASE	 3.1 x 3.1 x 1.0 TLM833	 3.15 x 3.15 x 1.0 TLM833S	 5.59 x 2.92 x 2.62 SMA	 5.59 x 3.81 x 2.44 SMB	 8.13 x 6.22 x 2.62 SMC	 10.73 x 6.81 x 2.75 DPAK	 5.5 x 3.7 x 1.1 SMBFL	 5.59 x 3.81 x 2.44 SMB	 4.9 x 2.6 x 1.1 SMAFL
	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE
V _{RRM} (VOLTS)									
20	-	-	CMSH3-20MA	CMSH3-20M	CMSH3-20	-	-	-	-
30	CTLSH3-30M833	CTLSH3-30M833S	-	-	-	-	-	-	-
40	-	-	CMSH3-40MA	CMSH3-40M	CMSH3-40	CSHD3-40	CMSH3-40FL	-	-
60	-	-	CMSH3-60MA	CMSH3-60M	CMSH3-60	CSHD3-60	-	-	-
100	-	-	CMSH3-100MA	CMSH3-100M	CMSH3-100	CSHD3-100	-	CMSH3-100MHV	CMSH3-100MFL
150	-	-	-	-	-	-	-	CMSH3-150MHV	CMSH3-150MFL
200	-	-	-	-	-	-	-	CMSH3-200MHV	CMSH3-200MFL
V _F MAX @ I _F = I _O									-
20	-	-	0.50V	0.55V	0.50V	-	-	-	-
30	0.45V	0.45V	-	-	-	-	-	-	-
40	-	-	0.50V	0.55V	0.50V	0.65V	0.50V	-	-
60	-	-	0.70V	0.75V	0.70V	0.75V	-	-	-
100	-	-	0.85V	0.85V	0.80V	0.85V	-	0.8V	0.8V
150	-	-	-	-	-	-	-	0.9V	0.9V
200	-	-	-	-	-	-	-	0.9V	0.9V
I _R MAX @ V _{RRM}	1.0mA	1.0mA	500µA	500µA	500µA	30µA†	100µA	50µA	50µA
PINOUT									

† 60V & 100V Devices

Schottky Rectifiers (continued)

4.0A to 5.0A
20 to 200V

Package dimensions shown are maximum values in mm.










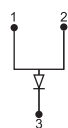
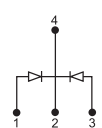
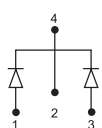

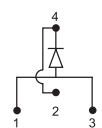
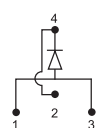
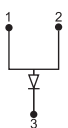
I _O (AMPS)	4.0				5.0					
@ T _A (°C) *T _C **T _L	90**	125**	25	125**	75	75	75	75**	120*	
I _{FSM} (AMPS)	150	100	50	100	125	125	75	100	80	
CASE	 8.13 x 6.22 x 2.62 SMC	 6.65 x 4.35 x 1.2 TLM364	 3.15 x 3.15 x 1.0 TLM833S	 5.5 x 3.7 x 1.1 SMBFL	 8.13 x 6.22 x 2.62 SMC	 6.7 x 7.3 x 1.8 SOT-223	 10.73 x 6.81 x 2.75 DPAK			
V _{RRM} (VOLTS)	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	DUAL COMMON CATHODE	SINGLE	SINGLE	
20	CMSH3-20L	-	-	-	CMSH5-20	-	-	-	-	
25	-	-	-	-	-	-	-	-	CSHD5-25L	
40	CMSH3-40L	-	CTLSH5-40M833S	CMSH5-40FL	CMSH5-40	CZSH5-40	CZSH5-40C	CSHD5-40	-	
60	-	-	-	-	CMSH5-60	-	-	CSHD5-60	-	
100	-	-	-	-	CMSH5-100	-	-	CSHD5-100	-	
150	-	-	-	-	-	-	-	-	-	
200	-	CTLSH4-200M364	-	-	-	-	-	-	-	
V _F MAX @ I _F = I _O										
20	0.42V	-	-	-	0.55V	-	-	-	-	
25	-	-	-	-	-	-	-	-	0.47V	
40	0.44V	-	0.52V	0.46V	0.55V	0.55V	0.55V	0.55V	-	
60	-	-	-	-	0.75V	-	-	0.75V	-	
100	-	-	-	-	0.85V	-	-	0.85V	-	
150	-	-	-	-	-	-	-	-	-	
200	-	0.84V	-	-	-	-	-	-	-	
I _R MAX @ V _{RRM}	500µA	1.0µA	200µA	100µA	3.0mA	3.0mA	3.0mA	200µA	500µA	
PINOUT										

† 60V & 100V Devices

Schottky Rectifiers (continued)

5.0A to 8.0A
20 to 200V

Package dimensions shown are maximum values in mm.






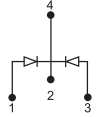
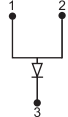
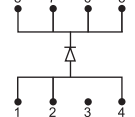
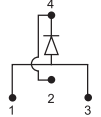
I _O (AMPS)	5.0		6.0		8.0			
@ T _A (°C) *T _C **T _L	75**	125**	75	120*	115**	75**	100*	125**
I _{FSM} (AMPS)	100	150	75	75 50†	150	85	150	280
CASE	 8.13 x 6.22 x 2.62 SMC	 6.65 x 4.35 x 1.2 TLM364	 6.7 x 7.3 x 1.8 SOT-223	 10.73 x 6.81 x 2.75 DPAK	 8.13 x 6.22 x 2.62 SMC	 10.73 x 6.81 x 2.75 DPAK	 16.6 x 10.4 x 4.8 D ² PAK	 6.65 x 4.35 x 1.2 TLM364
	SINGLE	SINGLE	DUAL COMMON CATHODE	DUAL COMMON CATHODE		SINGLE	SINGLE	SINGLE
V _{RRM} (VOLTS)								
20	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-
40	-	-	-	CSHD6-40C	CMSH8-40	-	CSHDD8-40	-
60	-	-	-	CSHD6-60C	-	CSHD8-60	CSHDD8-60	CTLSH8-60M364
100	CMSH5-100HV	CTLSH5-100M364	CZSH6-100C	CSHD6-100C	-	CSHD8-100	CSHDD8-100	-
150	CMSH5-150HV	-	-	-	-	-	-	-
200	CMSH5-200HV	-	-	-	-	CSHD8-200	-	-
V _F MAX @ I _F = I _O								
20	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-
40	-	-	-	0.85V Per Leg	0.55V	-	0.65V	-
60	-	-	-	0.9V Per Leg	-	0.75V	0.75V	0.54V
100	0.80V	0.80V	1.0V Per Leg	1.1V Per Leg	-	0.8V	0.85V	-
150	0.90V	-	-	-	-	-	-	-
200	0.90V	-	-	-	-	0.9V	-	-
I _R MAX @ V _{RRM}	50µA	15µA	10µA	30µA†	500µA	50µA	100µA	0.6mA
PINOUT								

† 60V & 100V Devices

Schottky Rectifiers (continued)

10A
40 to 100V

Package dimensions shown are maximum values in mm.




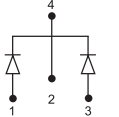
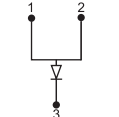
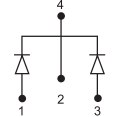
I_O (AMPS)	10					
@ T_A (°C) * T_C ** T_L	100*	75	110** †90**	100**	25	120*
I_{FSM} (AMPS)	100	125	275 †300	300	250	200
CASE	 10.73 x 6.81 x 2.75 DPAK	 6.7 x 7.3 x 1.8 SOT-223C	 6.65 x 4.35 x 1.2 TLM364	 6.1 x 5.1 x 1.025 TLM856	 10.73 x 6.81 x 2.75 DPAK	
	DUAL COMMON CATHODE	DUAL COMMON CATHODE	SINGLE	SINGLE	SINGLE	SINGLE
V_{RRM} (VOLTS)						
40	-	CZSH10-40CN	-	-	-	-
45	-	-	CTLSH10-45L	CTLSH10-45M364	-	CSHD10-45L
60	-	-	-	-	CTLSH10-60M856	-
100	CSHD10-100C	-	CTLSH10-100L	-	-	-
V_F MAX @ $I_F = I_O$						
40	-	0.60V Per Leg	-	-	-	-
45	-	-	0.47V	0.55V	-	0.75V
60	-	-	-	-	0.67V	-
100	0.9V (TYP)	-	0.68V	-	-	-
I_R MAX @ V_{RRM}	50µA	3.0mA	250µA	50µA	500µA	100µA
100	50µA	-	150µA	-	-	-
PINOUT						

†100V Devices

Schottky Rectifiers (continued)

12 to 16A 40 to 200V

Package dimensions shown are maximum values in mm.


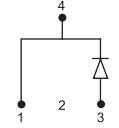
I _O (AMPS)	12	15	16
@ T _A (°C) *T _C **T _L	75*	**120	75*
I _{FSM} (AMPS)	100	275	150
CASE	 10.73 x 6.81 x 2.75 DPAK	 6.65 x 4.35 x 1.2 TLM364	 16.6 x 10.4 x 4.8 D ² PAK
	DUAL COMMON CATHODE	SINGLE	DUAL COMMON CATHODE
V _R RM (VOLTS)			
30	-	CTLSH15-30M364	-
40	-	-	CSHDD16-40C
60	CSHD12-60C	CTLSH15-60M364	CSHDD16-60C
100	-	-	CSHDD16-100C
200	-	-	CSHDD16-200C
V _F MAX @ I _F = I _O			
30	-	0.56V	-
40	-	-	0.84V Per Leg
60	0.75V @ 6.0A	0.59V	0.95V Per Leg
100	-	-	1.1V Per Leg
200	-	-	1.2V Per Leg
I _R MAX @ V _R RM	50µA	100µA	50µA
60	-	200µA	-
100	-	-	50µA
PINOUT			

†100V Devices

Silicon Carbide (SiC) Schottky Rectifiers

10A 650V

Package dimensions shown are maximum values in mm.

I _F (AMPS)	10
@ T _A (°C) *T _C **T _L	135*
I _{FSM} (AMPS)	60
CASE	 10.73 x 6.81 x 2.75 DPAK
	SINGLE
V _R RM (VOLTS)	
650	CSICD10-650
V _F MAX @ I _F = I _O	1.7V @ 25°C 2.5V @ 175°C
I _R MAX @ V _R RM	125µA
PINOUT	

Also Available CSIC10-1200, 1200V, 10A device in TO-220-2 package (see page 64)

TO-220-2 package





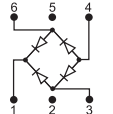
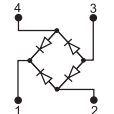
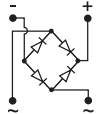


Also available in bare die form. Process CPC01

Bridge Rectifiers

Single Phase, Full Wave
0.14 to 1.0A
40 to 1000V

Package dimensions shown are maximum values in mm.





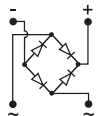
I _O (AMPS)	0.14		0.5	1.0				
@ T _A (°C)	25	25	40	25	25	50	40	40
I _{FSM} (AMPS)	-	-	30	20	20	50	50	50
CASE	 2.2 x 2.3 x 1.1 SOT-363	 3.04 x 2.50 x 1.14 SOT-143	HD BRIDGE  4.9 x 7.0 x 2.7 HD DIP			 8.51 x 10.41 x 2.49 SMDIP		
	GENERAL PURPOSE	GENERAL PURPOSE	GENERAL PURPOSE	SCHOTTKY	LOW V _F SCHOTTKY	GENERAL PURPOSE	FAST RECOVERY	ULTRA FAST RECOVERY
V _R RM (VOLTS)								
40	-	-	-	-	CBRHDSH1-40L	-	-	-
60	CMKBR-6F	CMFBR-6F	-	-	CBRHDSH1-60	-	-	-
100	-	-	CBRHD-01	CBRHDSH1-100	CBRHDSH1-100	-	-	CBR1U-D010S
200	-	-	CBRHD-02	-	CBRHDSH1-200	CBR1-D020S	CBR1F-D020S	CBR1U-D020S
400	-	-	CBRHD-04	-	-	CBR1-D040S	CBR1F-D040S	-
600	-	-	CBRHD-06	-	-	CBR1-D060S	CBR1F-D060S	-
1000	-	-	CBRHD-10*	-	-	CBR1-D100S	CBR1F-D100S*	-
V _F MAX @ I _F (40V)	-	-	-	-	0.44V	-	-	-
V _F MAX @ I _F (60V)	1.0V @ 20mA	1.0V @ 20mA	-	-	0.6V	-	-	-
V _F MAX @ I _F (100V)	-	-	1.0V @ 0.4A	0.75V @ 1.0A	0.75V	-	-	1.05V @ 1.0A
V _F MAX @ I _F (200V-1000V)	-	-	1.0V @ 0.4A	-	0.9V	1.1V @ 1.0A	1.3V @ 1.0A	1.05V @ 1.0A
I _R MAX @ V _R RM (40V)	-	-	-	-	50µA	-	-	-
I _R MAX @ V _R RM (60V)	10nA @ 50V	10nA @ 50V	-	-	20µA	-	-	-
I _R MAX @ V _R RM (100V)	-	-	5.0µA	10µA	10µA	-	-	5µA
I _R MAX @ V _R RM (200V - 1000V)	-	-	5.0µA	-	50µA	10µA	5.0µA	5µA
t _{rr} (60V)	1.0µs typ.	1.0µs typ.	-	-	-	-	-	-
t _{rr} (100 - 400V)	-	-	-	-	-	-	200ns	50ns
t _{rr} (600V)	-	-	-	-	-	-	300ns	-
t _{rr} (1000V)	-	-	-	-	-	-	500ns	-
PINOUT								

* Available on special order; please consult factory.

Bridge Rectifiers (continued)

Single Phase, Full Wave 1.0 to 2.0A 40 to 1000V

Package dimensions shown are maximum values in mm.

I _O (AMPS)	1.0		2.0				
	25	25	50**	25	25	25	25
I _{FSM} (AMPS)	30	30	50	30	50	50	110
CASE	 6.7 x 5.15 x 1.45 LPDIP		  4.9 x 7.0 x 2.7 HD DIP			 8.51 x 10.41 x 2.49 SMDIP	
	SCHOTTKY	GENERAL PURPOSE	SCHOTTKY	SCHOTTKY	SCHOTTKY	GENERAL PURPOSE	SCHOTTKY
V _{RRM} (VOLTS)							
40	CBRLDSH1-40	-	CBRLDSH2-40	CBRHDSH2-40	-	-	CBRSDSH2-40
60	-	-	CBRLDSH2-60	-	-	-	CBRSDSH2-60
100	-	-	CBRLDSH2-100	-	CBRHDSH2-100	-	CBRSDSH2-100
200	-	CBRLD1-02	-	-	-	CBR2-D020S	-
400	-	CBRLD1-04	-	-	-	CBR2-D040S	-
600	-	CBRLD1-06	-	-	-	CBR2-D060S	-
800	-	CBRLD1-08	-	-	-	CBR2-D080S	-
1000	-	CBRLD1-10	-	-	-	CBR2-D100S	-
V _F MAX @ I _F (40V)	500mV @ 1.0A	-	500mV @ 2.0A	0.5V @ 2.0A	-	-	450mV @ 2.0A
V _F MAX @ I _F (60V)	-	-	700mV @ 2.0A	-	-	-	600mV @ 2.0A
V _F MAX @ I _F (100V)	-	-	840mV @ 2.0A	-	0.84V @ 2.0A	-	700mV @ 2.0A
V _F MAX @ I _F (200V - 1000V)	-	1.0V @ 1.0A	-	-	-	1.1V @ 2.0A	-
I _R MAX @ V _{RRM} (40V)	100µA	-	100µA	50µA	-	-	70µA
I _R MAX @ V _{RRM} (60V)	-	-	500µA	-	-	-	70µA
I _R MAX @ V _{RRM} (100V)	-	-	4.0µA	-	4.0µA	-	50µA
I _R MAX @ V _{RRM} (200V - 1000V)	-	10µA	-	-	-	5.0µA	-
PINOUT							

* Available on special order; please consult factory.