

**Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Reverse Recovery Time < 25ns

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS860B	MURS860B	600V	420V	600V

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

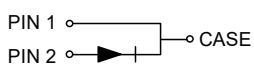
Average Rectified Forward Current	$I_{F(AV)}$	8.0A	$T_C = 90^\circ C$
Peak Forward Surge Current	$I_{FSM}$	70A	8.3ms, Half Sine
Instantaneous Forward Voltage	$V_F$	2.70V(Typ) 3.6V(Max) 1.8V(Typ)	$I_F=8A; T_J=25^\circ C$ $I_F=8A; T_J=25^\circ C$ $I_F=8A; T_J=150^\circ C$
Reverse Current At Rated DC Blocking Voltage	$I_R$	10µA 100µA	$T_J=25^\circ C;$ $T_J=150^\circ C$
Typical Junction Capacitance	$C_J$	40pF	Measured at 1.0MHz, $V_R=4.0V$

**Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified**

Reverse Recovery Time	$t_{rr}$	14ns(Typ.) 25ns(Max.)	$I_F=0.5A; I_R=1.0A;$ $I_{RR}=0.25A$	$I_F = 8 A$ $di_F/dt = 200 A/\mu s$ $V_R = 400 V$
		40ns(Typ.) 50ns(Typ.)	$T_J=25^\circ C$ $T_J=125^\circ C$	
Peak recovery current	$I_{RRM}$	1.7A(Typ.) 4.5A(Typ.)	$T_J=25^\circ C$ $T_J=125^\circ C$	
Reverse recovery charge	$Q_{rr}$	35nC(Typ.) 115nC(Typ.)	$T_J=25^\circ C$ $T_J=125^\circ C$	

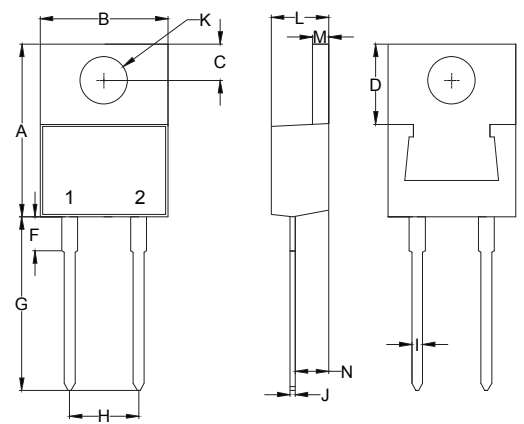
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

**Internal Structure**



**8 Amp  
FRED Rectifiers  
600 Volts**

**TO-220AC**



**DIMENSIONS**

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.560	0.625	14.22	15.88	
B	0.380	0.420	9.65	10.67	
C	0.100	0.135	2.54	3.43	
D	0.230	0.270	5.84	6.86	
F	-----	0.250	-----	6.35	
G	0.500	0.580	12.70	14.73	
H	0.190	0.210	4.83	5.33	
I	0.020	0.045	0.51	1.14	
J	0.012	0.025	0.30	0.64	
K	0.139	0.161	3.53	4.09	Φ
L	0.140	0.190	3.56	4.83	
M	0.045	0.055	1.14	1.40	
N	0.080	0.115	2.03	2.92	

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

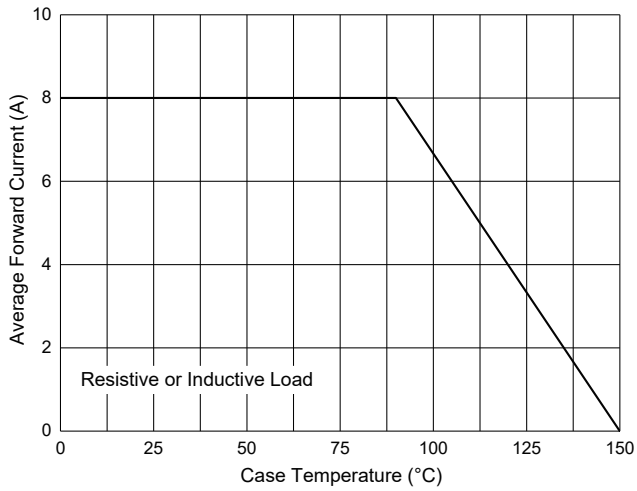


Fig. 3 - Maximum Non-Repetitive Peak Forward Surge Current

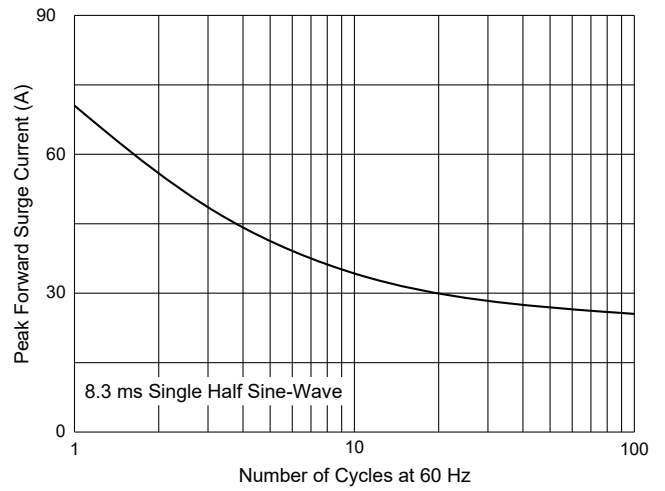


Fig. 3 - Typical Instantaneous Forward Characteristics

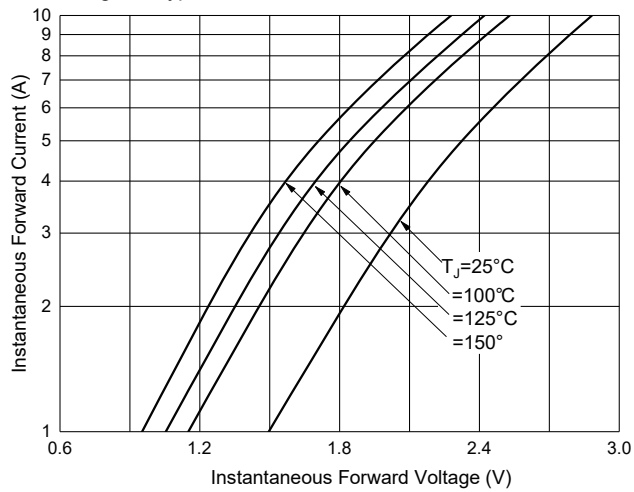
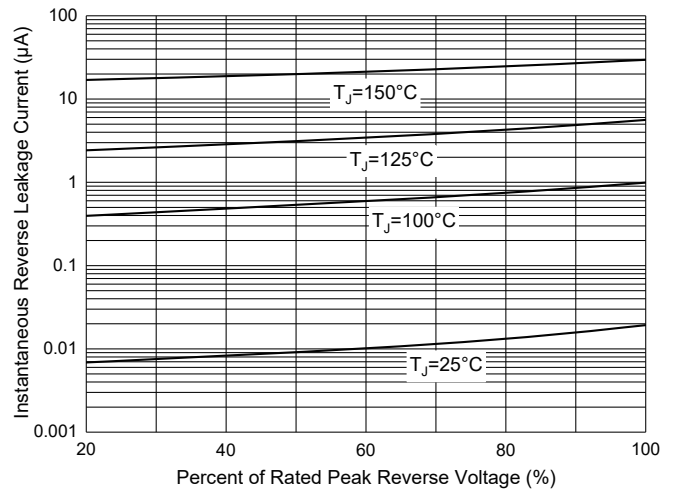


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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