

Features

- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Surge Capacity And Low Reverse Leakage Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- $\text{V}_{\text{BR}} = 50\text{V}$ to 600V
- $\text{V}_{\text{RR}} = 35\text{V}$ to 420V
- Mounting Torque: 5 in-lbs Maximum

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR1605	MUR1605	50V	35V	50V
MUR1610	MUR1610	100V	70V	100V
MUR1620	MUR1620	200V	140V	200V
MUR1640	MUR1640	400V	280V	400V
MUR1660	MUR1660	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(\text{AV})}$	16A	$T_C=100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element			
MUR1605-MUR1620	V_F	0.975V	$I_{FM}=16\text{A}; T_J=25^\circ\text{C}$
MUR1640-MUR1660		1.5V	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA 500 μA	$T_J=25^\circ\text{C}; T_J=125^\circ\text{C}$
Maximum Reverse Recovery Time	T_{RR}	35ns 50ns	$I_F=0.5\text{A}; I_R=1.0\text{A}; I_{RR}=0.25\text{A}$
MUR1605-MUR1620			
MUR1640-MUR1660			
Typical Junction Capacitance	C_J	65pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

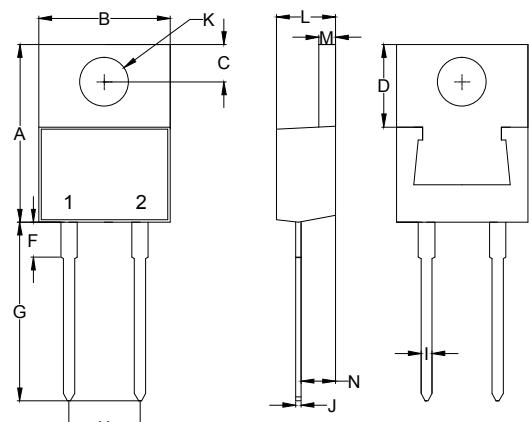
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure



16 Amp Super Fast Glass Passivated Rectifier 50 to 600 Volts

TO-220AC



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	0.139	0.163	3.54	4.14	
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

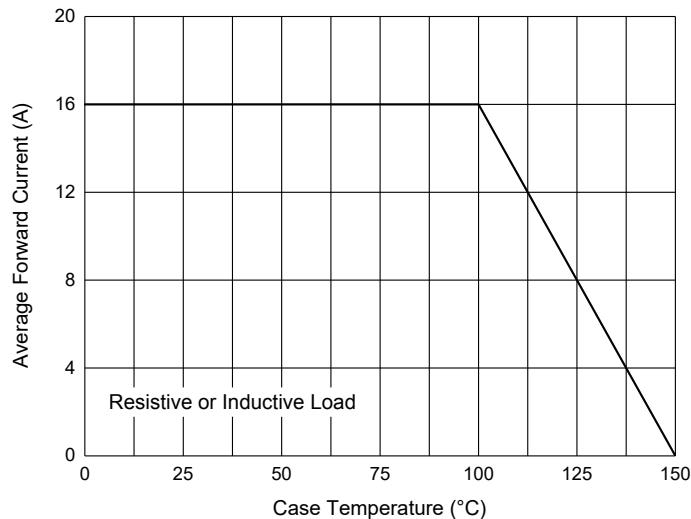


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

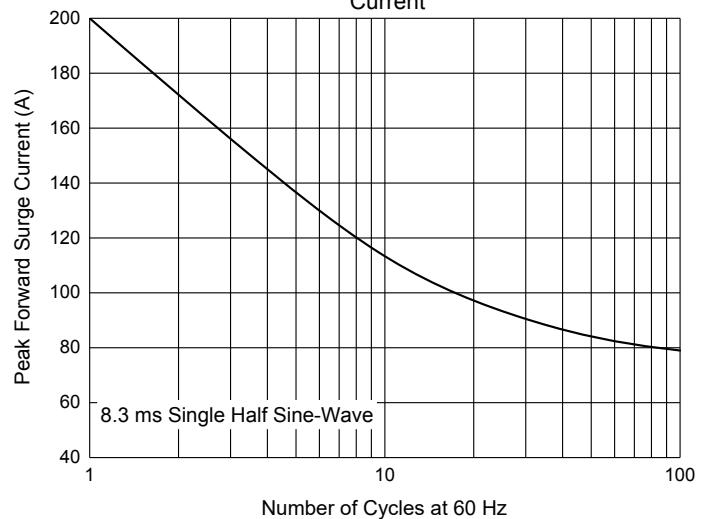


Fig. 3 - Typical Instantaneous Forward Characteristics

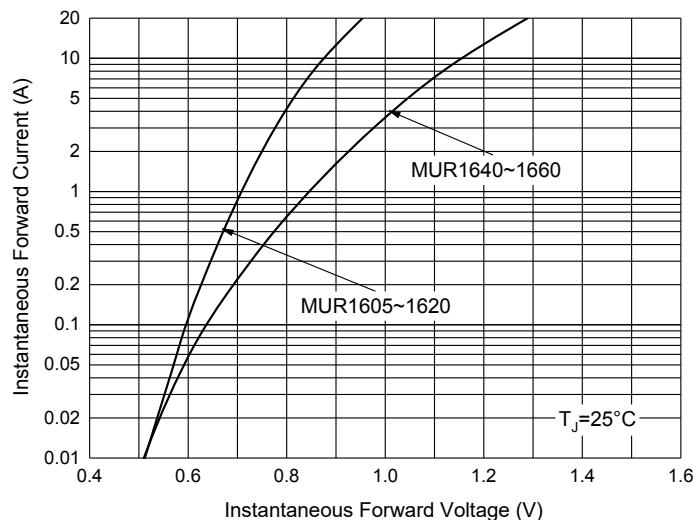
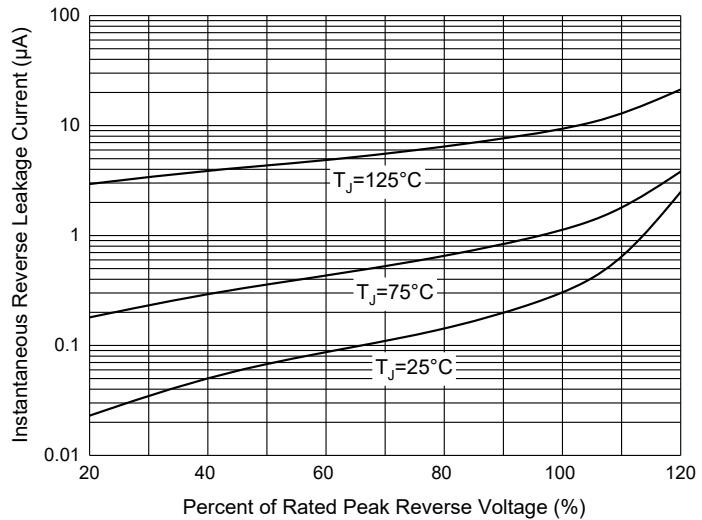


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton

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

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