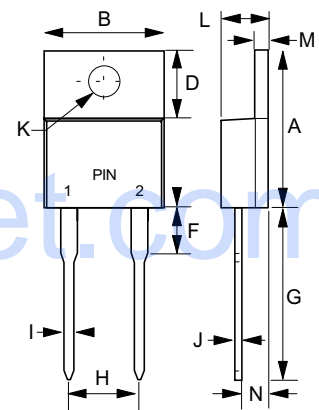


MUR1605 THRU MUR1660

16 Amp Super Fast Glass Passivated Rectifier 50 to 600 Volts

TO-220AC



Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Glass passivated chip
- Superfast switching time for high efficiency
- High surge capacity and Low reverse leakage current
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Operating Temperature: - 55°C to +155°C
- Storage Temperature: - 55°C to +155°C
- Mounting Torque: 5 in-lbs Maximum

MCC Catalog 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
MUR1630	MUR1630	300V	210V	300V
MUR1640	MUR1640	400V	280V	400V
MUR1660	MUR1660	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	16.0A	$T_C = 110^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	250A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element 1605- 1620 1630-1640 1660	V_F	0.975V 1.3V 1.7 V	$I_{FM} = 16A$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10uA 250uA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Maximum Reverse Recovery Time	T_{rr}	35ns	$I_F=0.5A, I_r=1.0A,$ $I_{rr}=0.25A$
Typical Junction Capacitance	C_J	65pF	Measured at 1.0MHz, $V_R=4.0V$

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.587	0.594	14.90	15.10	
B	-----	0.412	-----	10.50	
D	0.23	0.27	5.84	6.86	
F	0.14	0.16	3.56	4.06	
G	0.53	0.56	13.46	14.22	
H	0.195	0.205	4.95	5.20	
I	0.027	0.037	0.68	0.94	
J	0.014	0.025	0.35	0.64	
K	0.148	0.154	3.74	3.91	Ø
L	0.175	0.185	4.44	4.70	
M	0.045	0.055	1.14	1.40	
N	0.10	0.11	0.35	0.64	

FIG.1 - FORWARD CURRENT DERATING CURVE

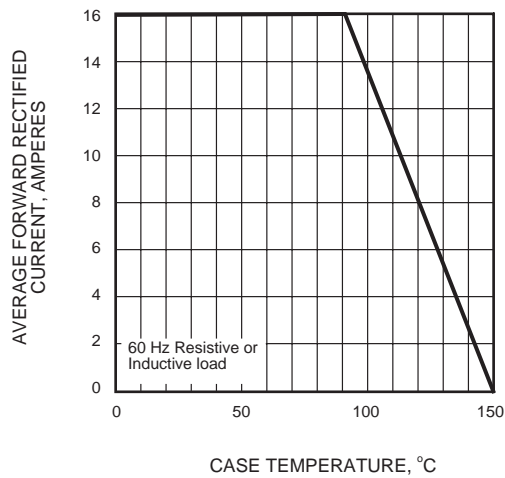


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

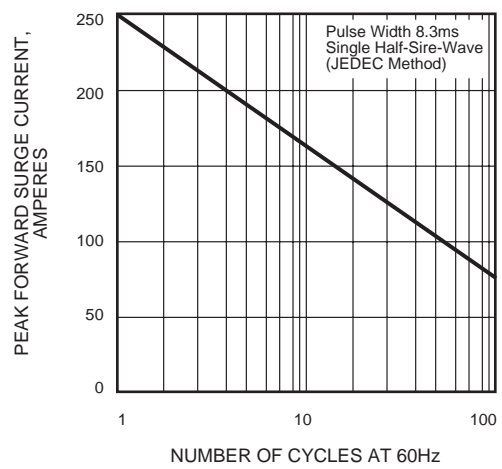


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

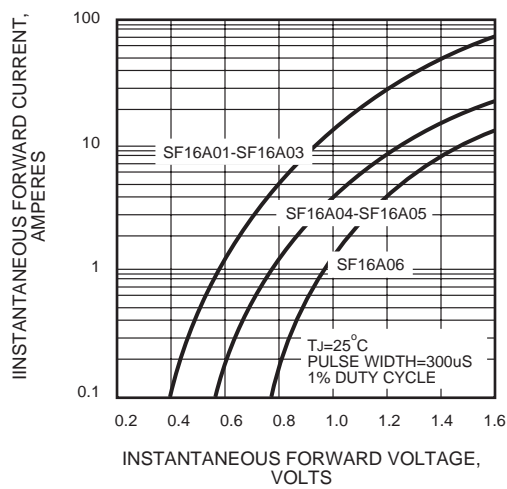


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

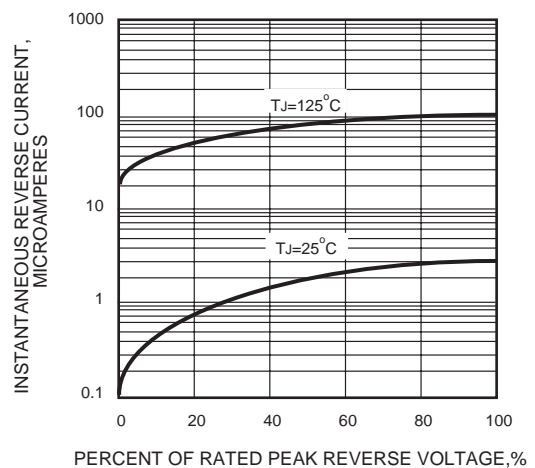
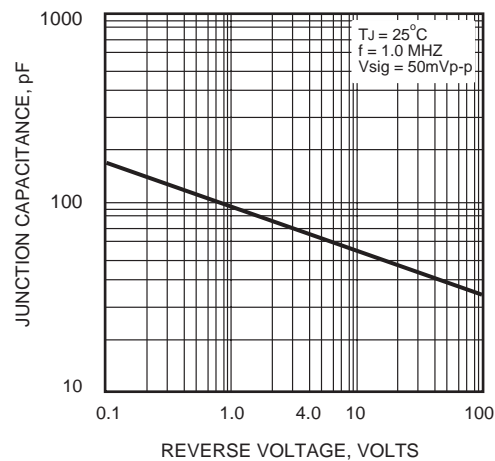


FIG.5 - TYPICAL JUNCTION CAPACITANCE



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;50pcs/Tube

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