Micro Commercial Components
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MGR1601 THRU MGR1607

16 Amp Glass Passivated Silicon Rectifiers 50 to 1000 Volts

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Maximum Ratings

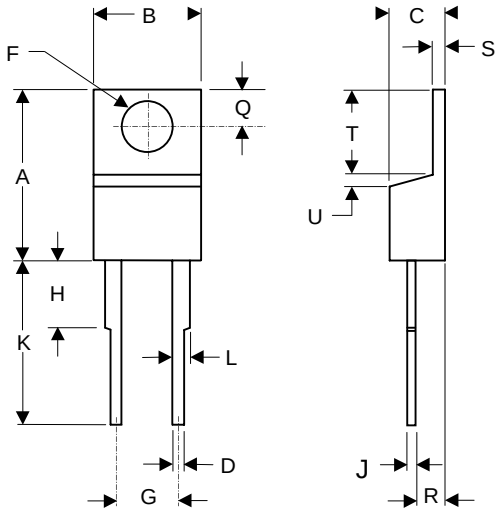
- Operating Temperature: -55℃ to +150℃
- Storage Temperature: -55℃ to +150℃
- Typical Thermal Resistance: 2.0℃/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MGR1601	50	35	50
MGR1602	100	70	100
MGR1603	200	140	200
MGR1604	400	280	400
MGR1605	600	420	600
MGR1606	800	560	800
MGR1607	1000	700	1000

Electrical Characteristics @ 25℃ Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	16 A	T_C = 100℃
Peak Forward Surge Current	I_{FSM}	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	I_F=16A T_A=25℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 250μA	T_A = 25℃ T_A = 125℃
Typical Junction Capacitance	C_J	100pF	Measured at 1.0MHz, V_R=4.0V

TO-220AC



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.595	.620	15.11	15.75	
B	.380	.405	9.65	10.29	
C	.160	.190	4.06	4.82	
D	.025	.035	0.64	0.89	
F	.142	.147	3.61	3.73	
G	.190	.210	4.83	5.33	
H	.110	.130	2.79	3.30	
J	.018	.025	0.46	0.64	
K	.500	.562	12.70	14.27	
L	.045	.060	1.14	1.52	
Q	.100	.120	2.54	3.04	
R	.080	.110	2.04	2.79	
S	.045	.055	1.14	1.39	
T	.235	.255	5.97	6.48	
U	------	.050	-----	1.27	

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

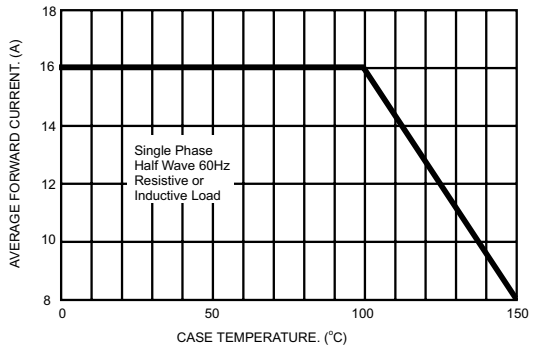


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

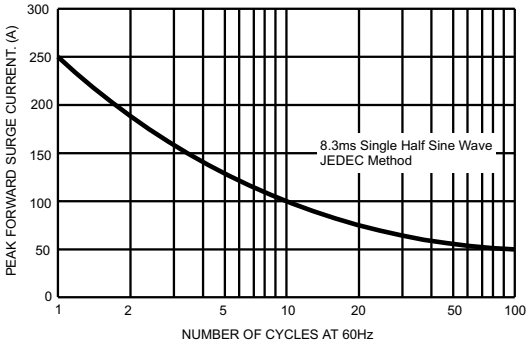


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

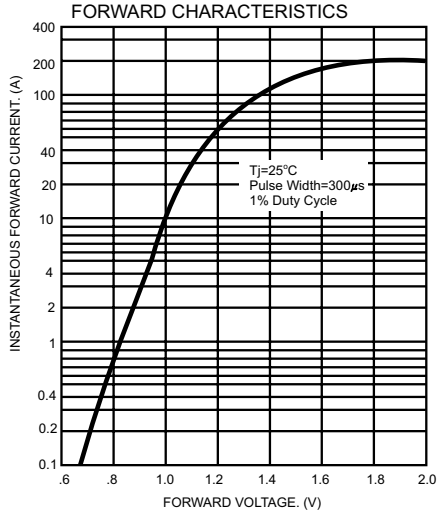


FIG.4- TYPICAL REVERSE CHARACTERISTICS

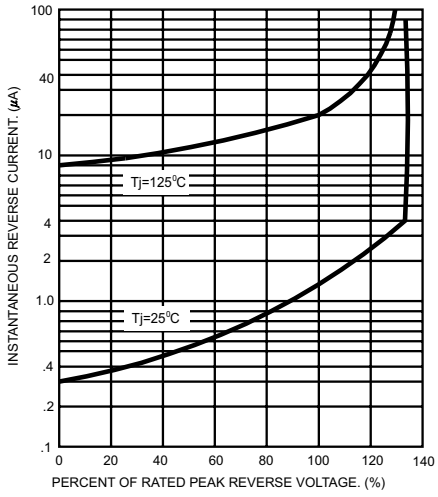


FIG.5- TYPICAL JUNCTION CAPACITANCE