

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Super Fast Switching For High Efficiency
- Low Reverse Leakage
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 3°C/W Junction to Case

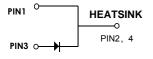
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURB820	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

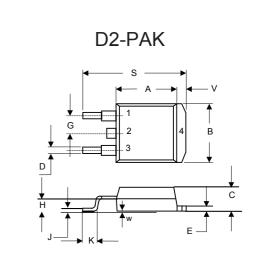
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I _{F(AV)}	8.0A	T _C =110°C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V_{F}	0.93V(Typ.) 0.95V(Max) 0.90V(Max)	$I_F=8.0A$; $T_J=25^{\circ}C$ $I_F=8.0A$; $T_J=25^{\circ}C$ $I_F=8.0A$; $T_J=125^{\circ}C$
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 0.15mA	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time t _{rr}		40ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Junction Capacitance	CJ	120pF	VR=0V,f=1MHz

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

Internal Structure

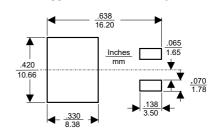


8.0 Amp Super Fast Recovery Rectifiers 200 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
Е	0.045	0.055	1.14	1.40	
G	0.010		2.54		TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
K	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	

Suggested Solder Pad Layout





Curve Characteristics

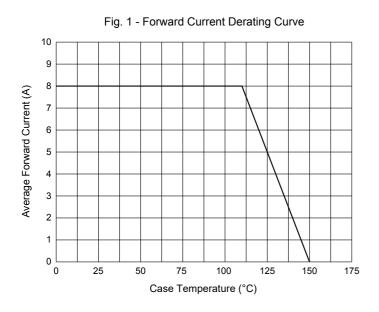


Fig. 3 - Typical Instantaneous Forward Characteristics

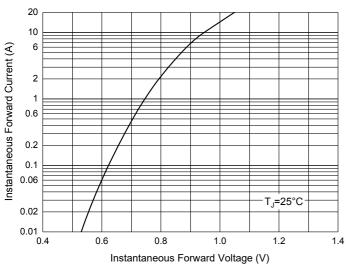
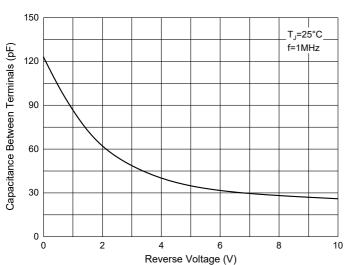


Fig. 5 - Typical Capacitance Characteristics



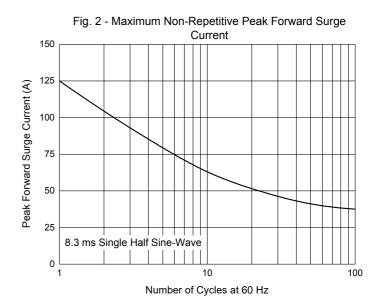
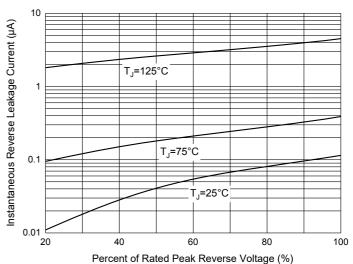


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 800pcs/Reel	
Part Number-BP	Tube: 5Kpcs/Ctn	

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

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