

Features

- Halogen Free. "Green" Device (Note1)
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- · Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Ultrafast Recovery Time
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Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

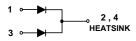
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURSB1620CTA	MURSB1620CTA	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

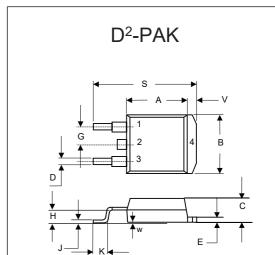
Average Rectified Forward Current	I _{F(AV)}	16A	T _C =145°C	
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Hal	f Sine
Instantaneous Forward Voltage	V _F	0.9V(Typ) 1.0V(Max) 0.85V(Max)	I _F =8A; T]=25°C]=25°C J=125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5uA 50uA	T _J =25°C; T _J =125°C	
Typical Junction Capacitance	CJ	65pF	Measured at 1.0MHz, V _R =4.0V	
Reverse Recovery	t _{rr}	25ns(Typ.) 35ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		20ns(Typ.) 36ns(Typ.)	T _J =25°C T _J =125°C	1 -04
Peak recovery current	I _{RRM}	3.7A(Typ.) 6.6A(Typ.)	T _J =25°C T _J =125°C	I _F =8Α di _F /dt=-200Α/μs V _R =100 V
Reverse recovery charge	Q _{rr}	43nC(Typ.) 120nC(Typ.)	T _J =25°C T _J =125°C	1, 100 1

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



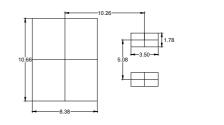
16 Amp FRED Rectifiers 200 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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		
E	0.045	0.055	1.14	1.40		
G	0.10		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

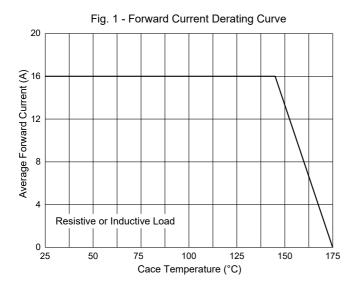
Unit:m

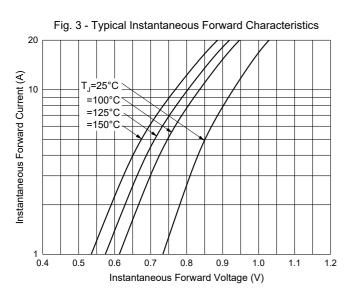


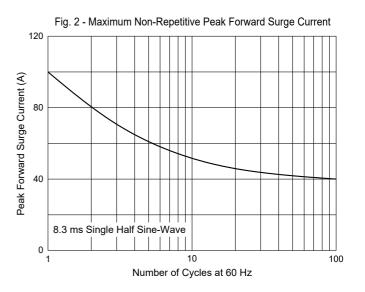
^{2.} High temperature solder exemption applied, see EU directive annex 7a.

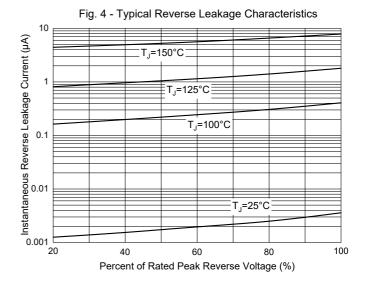


Curve Characteristics











Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 800pcs/Reel		
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton		

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