

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Ultrafast Recovery Time
- Planar Structure Die and Soft Recovery Characteristics

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

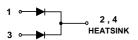
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS1040CTA	MURS1040CTA	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

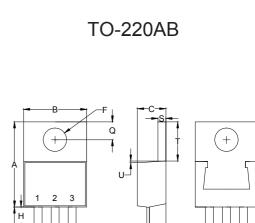
Average Rectified Forward Current	I _{F(AV)}	10A	T _C = 125°C
Peak Forward Surge Current	I _{FSM}	70A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	1.08V(Typ) 1.25V(Max) 1.05V(Max)	I _F =5A; T _J =25°C I _F =5A; T _J =25°C I _F =5A; T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Typical Junction Capacitance	С	35pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure



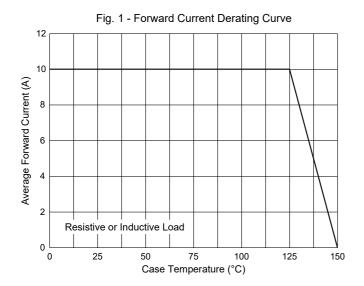
10 Amp FRED Rectifiers 400 Volts

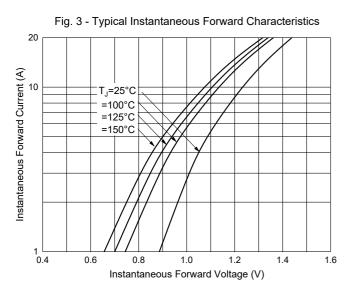


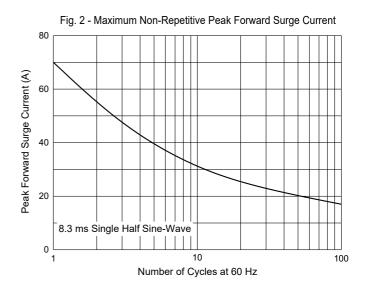
DIM INCHES MM MIN MAX MIN MAX MIN MAX NOTE A 0.560 0.625 14.22 15.88 10.90 B 0.380 0.429 9.65 10.90 10.90 C 0.140 0.201 3.56 5.10 5.10 D 0.020 0.045 0.51 1.14 1.14 F 0.131 0.170 3.34 4.31 Φ Φ G 0.079 0.121 2.01 3.07 0.01 0.025 0.28 0.64 K 0.500 0.580 12.70 14.73 L 0.045 0.060 1.14 1.52 N 0.158 0.242 4.02 6.14 Q 0.087 0.135 2.22 3.43 R 0.080 0.126 2.04 3.19 S 0.045 0.055 1.14 1.39 T 0.230 0.270 5.84 6.86 U 0.050 1.27	DIMENSIONS					
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Q 0.087 0.135 2.22 3.43 R 0.080 0.126 2.04 3.19 S 0.045 0.055 1.14 1.39 T 0.230 0.270 5.84 6.86 U 0.050 1.27	L	0.045	0.060	1.14	1.52	
R 0.080 0.126 2.04 3.19 S 0.045 0.055 1.14 1.39 T 0.230 0.270 5.84 6.86 U 0.050 1.27	N	0.158	0.242	4.02	6.14	
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	Т	0.230	0.270	5.84	6.86	
V 0.045 1.15	U		0.050		1.27	
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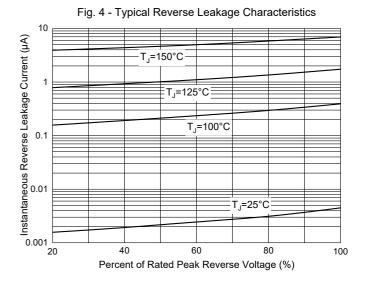


Curve Characteristics









Rev.3-2-11112020 2/3 MCCSEMI.COM



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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