

## 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
- Moisture Sensitivity Level 1
- 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

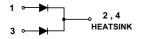
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS1620CTA	MURS1620CTA	200V	140V	200V

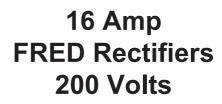
### Electrical Characteristics @ 25°C Unless Otherwise Specified

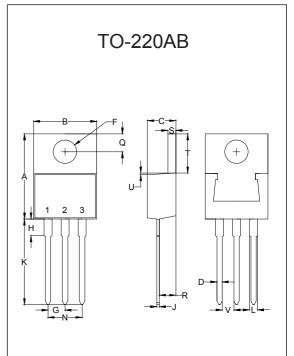
Average Rectified Forward Current	I <sub>F(AV)</sub>	16A	T <sub>C</sub> = 120°C
Peak Forward Surge Current	I <sub>FSM</sub>	100A	8.3ms,Half Sine
Instantaneous Forward Voltage	V <sub>F</sub>	0.9V(Typ) 1.0V(Max) 0.85V(Max)	I <sub>F</sub> =8A; T <sub>J</sub> =25⁰C I <sub>F</sub> =8A; T <sub>J</sub> =25⁰C I <sub>F</sub> =8A; T <sub>J</sub> =125⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 50μΑ	Tյ=25⁰C; Tյ=125⁰C
Maximum Reverse Recovery Time	t <sub>rr</sub>	35ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A
Typical Junction Capacitance	CJ	65pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

#### **Internal Structure**



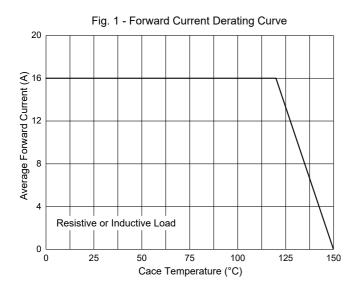


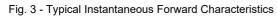


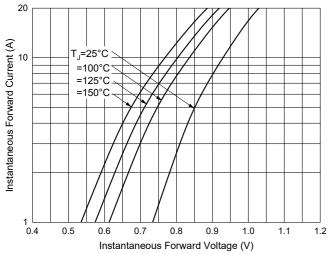
DIMENSIONS						
DIM	INC	INCHES		М	NOTE	
	MIN	MAX	MIN	MAX	NOTE	
А	0.560	0.625	14.22	15.88		
В	0.380	0.429	9.65	10.90		
С	0.140	0.201	3.56	5.10		
D	0.020	0.045	0.51	1.14		
F	0.131	0.170	3.34	4.31	Φ	
G	0.079	0.121	2.01	3.07		
Н		0.250		6.35		
J	0.011	0.025	0.28	0.64		
Κ	0.500	0.580	12.70	14.73		
L	0.045	0.060	1.14	1.52		
Ν	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		
Т	0.230	0.270	5.84	6.86		
U		0.050		1.27		
V	0.045		1.15			



## **Curve Characteristics**







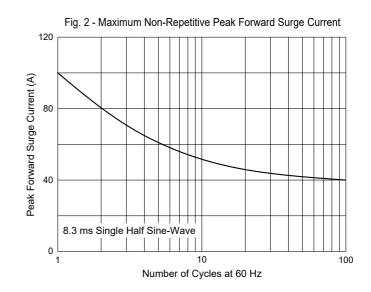
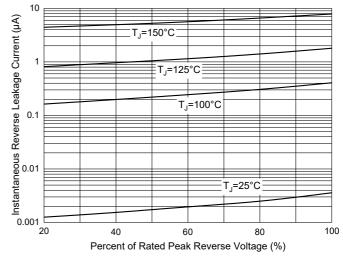


Fig. 4 - Typical Reverse Leakage Characteristics





## **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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