

#### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · High Surge Capability
- Glass Passivated Junction
- Ultra Fast Switching Speed For High Efficiency
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Ambient

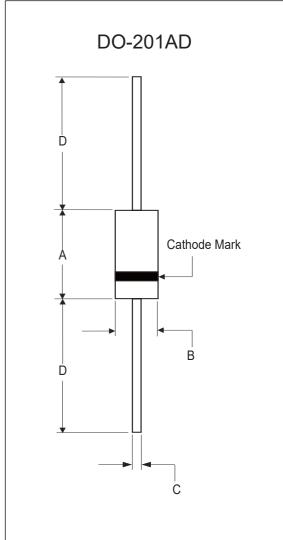
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR405GP	MUR405G	50V	35V	50V
MUR410GP	MUR410G	100V	70V	100V
MUR415GP	MUR415G	150V	105V	150V
MUR420GP	MUR420G	200V	140V	200V
MUR440GP	MUR440G	400V	280V	400V
MUR460GP	MUR460G	600V	420V	600V
MUR480GP	MUR480G	800V	550V	800V
MUR4100GP	MUR4100G	1000V	700V	1000V

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

Average Forward Current	I <sub>F(AV)</sub>	4.0A	T <sub>A</sub> =55°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage			
MUR405GP-420GP MUR440GP-460GP	'	1.0V 1.28V	I <sub>FM</sub> =4.0A; T <sub>.I</sub> =25°C
MUR480GP-4100GP		1.85V	11–20 0
Maximum DC Reverse Current At Rated DC	I <sub>R</sub>	10μΑ	T <sub>J</sub> =25°C;
Blocking Voltage	'R	50µA	T <sub>J</sub> =100°C
Maximum Reverse Recovery Time			
MUR405GP-420GP	Trr	25ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A;
MUR440GP-460GP		50ns	Irr=0.25A
MUR480GP-4100GP		75ns	
Typical Junction Capacitance			
MUR405GP-420GP MUR440GP-4100GP	CJ	60pF 50pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

# 4 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts



DIMENSIONS						
INCHES		MM		NOTE		
MIN	MAX	MIN	MAX	NOTE		
0.287	0.374	7.30	9.50			
0.189	0.208	4.80	5.30			
0.048	0.052	1.20	1.30			
1.000		25.40				
	MIN 0.287 0.189 0.048	INCHES   MIN   MAX   0.287   0.374   0.189   0.208   0.048   0.052	INCHES   M   MIN   MAX   MIN   0.287   0.374   7.30   0.189   0.208   4.80   0.048   0.052   1.20	INCHES         MM           MIN         MAX         MIN         MAX           0.287         0.374         7.30         9.50           0.189         0.208         4.80         5.30           0.048         0.052         1.20         1.30		



### **Curve Characteristics**

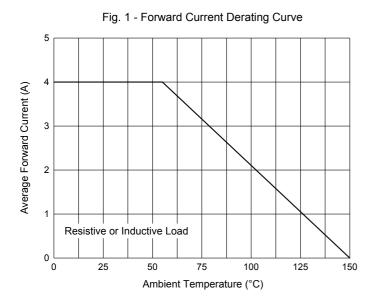
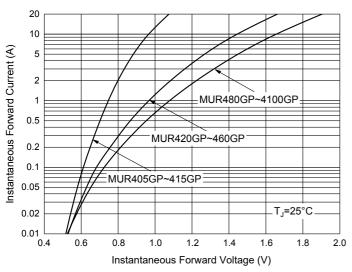


Fig. 3 - Typical Instantaneous Forward Characteristics



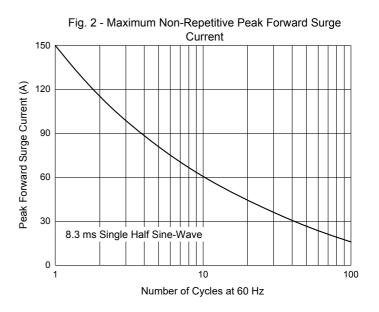
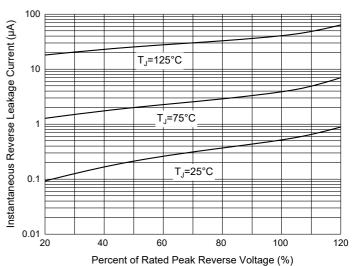


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel		
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box		
Part Number-BP	Bulk:500pcs/Box,12Kpcs/Carton		

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

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