



Micro Commercial Components



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

### Features

- Halogen free available upon request by adding suffix "-HF"
- High Surge Capability
- Low Leakage and Low Forward Voltage Drop
- Ultra Fast Switching Speed For High Efficiency
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

- Maximum Ratings
  Epoxy meets UL 94 V-0 flammability rating
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 20°C/W
- Moisture Sensitivity Level 1

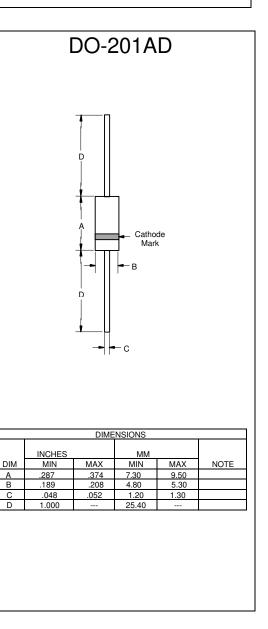
	-			
MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
MUR405	MUR405	50V	35V	50V
MUR410	MUR410	100V	70V	100V
MUR415	MUR415	150V	105V	150V
MUR420	MUR420	200V	140V	200V
MUR440	MUR440	400V	280V	400V
MUR460	MUR460	600V	420V	600V
MUR480	MUR480	800V	550V	800V
MUR4100	MUR4100	1000V	700V	1000V

### Electrical Characteristics @25°CUnless Otherwise Specified

Assessed Fernand	<u>`</u>	4.0.4	<b>T FF0</b>
Average Forward	I <sub>F(AV)</sub>	4.0A	$T_A = 55^{\circ}C$
Current			
Peak Forward Surge	I <sub>FSM</sub>	150A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
MUR405-415	VF	1.00V	I <sub>FM</sub> = 4.0A;
MUR420-460		1.35V 1.85V	$T_A = 25^{\circ}C$
MUR480-4100		1.00 V	14 - 20 0
Maximum DC			
Reverse Current At	I <sub>R</sub>	10µA	$T_A = 25^{\circ}C$
Rated DC Blocking		E0A	T 100°C
Voltage		50µA	$T_{A} = 100^{\circ}C$
Maximum Reverse			
Recovery Time			
MUR405-415	_	45ns	
MUR420-460	Trr	60ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A,
MUR480-4100		75ns	I <sub>rr</sub> =0.25A
Typical Junction			Measured at
Capacitance MUR405-460	C	80pF	1.0MHz, V <sub>B</sub> =4.0V
MUR480-4100	CJ	50pF	, , , ,

# **MUR405** THRU **MUR4100**

## 4 Amp Ultra Fast **Recovery Rectifier** 50 to 1000 Volts



Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

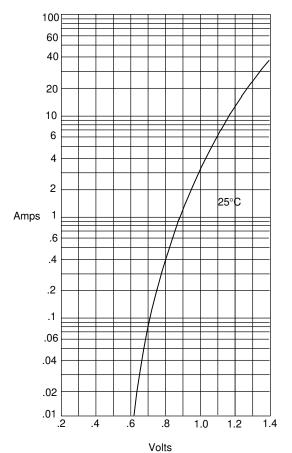
Revision: C

2013/02/21

### MUR405 thru MUR4100

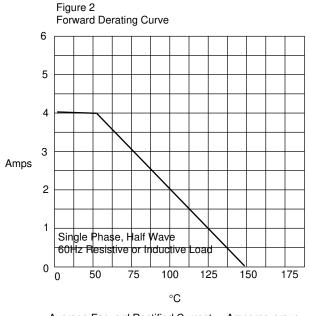
Figure 1

Typical Forward Characteristics



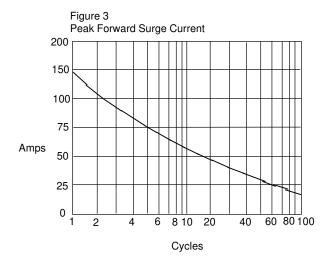
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Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $\ \ ^\circ C$ 

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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#### **Micro Commercial Components**

### **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: 12Kpcs/Carton		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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