



Micro Commercial Components



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MUR405 THRU MUR4100

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)

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

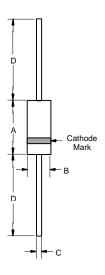
- Maximum Ratings
 Epoxy meets UL 94 V-0 flammability rating
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 20°C/W
- Moisture Sensitivity Level 1

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking 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°C Unless Otherwise Specified

Average Forward	I _{F(AV)}	4.0A	$T_A = 55^{\circ}C$
Current			
Peak Forward Surge	I_{FSM}	150A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
MUR405-415 MUR420-460	V_{F}	1.00V	$I_{FM} = 4.0A;$
MUR480-4100		1.35V 1.85V	$T_A = 25^{\circ}C$
Maximum DC			
Reverse Current At	I_R	10µA	$T_A = 25^{\circ}C$
Rated DC Blocking		ΕO···Λ	T _A = 100°C
Voltage		50µA	1A= 100 C
Maximum Reverse			
Recovery Time			
MUR405-415	Trr	45ns	$I_{E}=0.5A, I_{R}=1.0A,$
MUR420-460	111	60ns 75ns	$I_{rr}=0.25A$
MUR480-4100		7 0.10	
Typical Junction		90nE	Measured at
Capacitance MUR405-460 MUR480-4100	C_J	80pF 50pF	1.0MHz, V _R =4.0V

DO-201AD



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.287	.374	7.30	9.50		
В	.189	.208	4.80	5.30		
С	.048	.052	1.20	1.30		
D	1.000		25.40			

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

MUR405 thru MUR4100

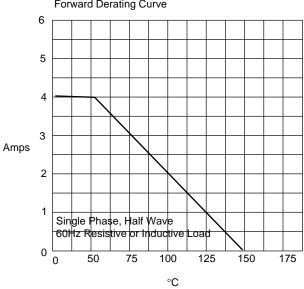
Figure 1
Typical Forward Characteristics



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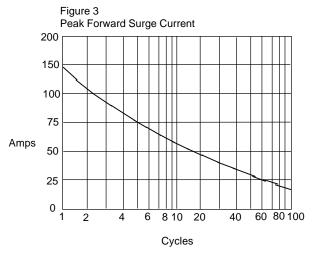
100 60 40 20 10 6 2 25°C Amps .6 .4 .2 .1 .06 .04 .02 .01 .4 .6 8. 1.0 1.2 1.4 Volts

Figure 2 Forward Derating Curve



Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



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



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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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