

Obsolete

MCC

Micro Commercial Components



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)

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

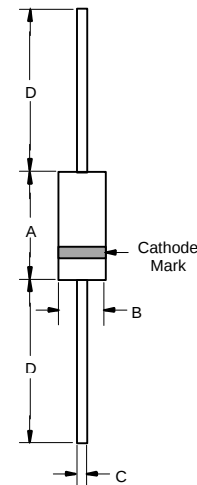
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MUR405-415 MUR420-460 MUR480-4100	V_F	1.00V 1.35V 1.85V	$I_{FM} = 4.0\text{A};$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10uA 50uA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Maximum Reverse Recovery Time MUR405-415 MUR420-460 MUR480-4100	T_{rr}	45ns 60ns 75ns	$I_F = 0.5\text{A}, I_R = 1.0\text{A},$ $I_{rr} = 0.25\text{A}$
Typical Junction Capacitance MUR405-460 MUR480-4100	C_J	80pF 50pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$

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

4 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts

DO-201AD



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

MUR405 thru MUR4100

Figure 1
Typical Forward Characteristics

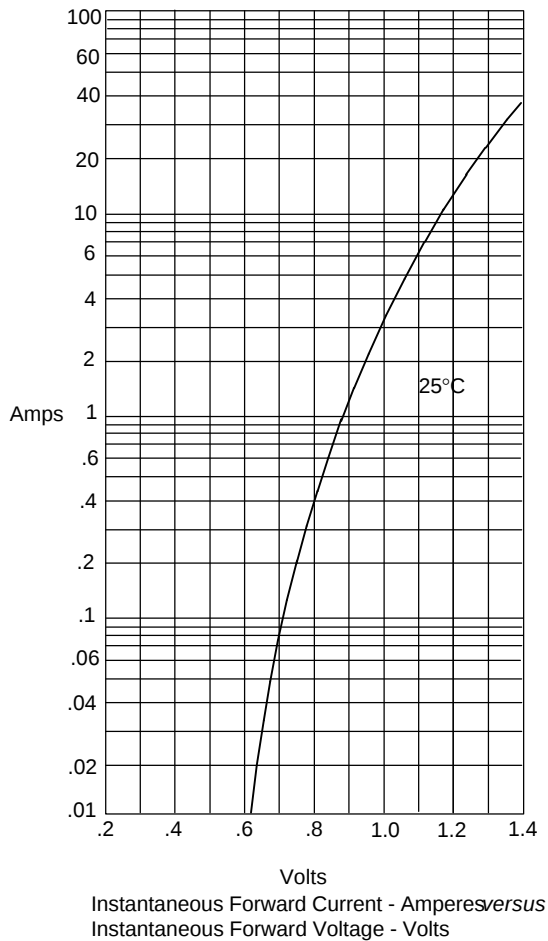


Figure 2
Forward Derating Curve

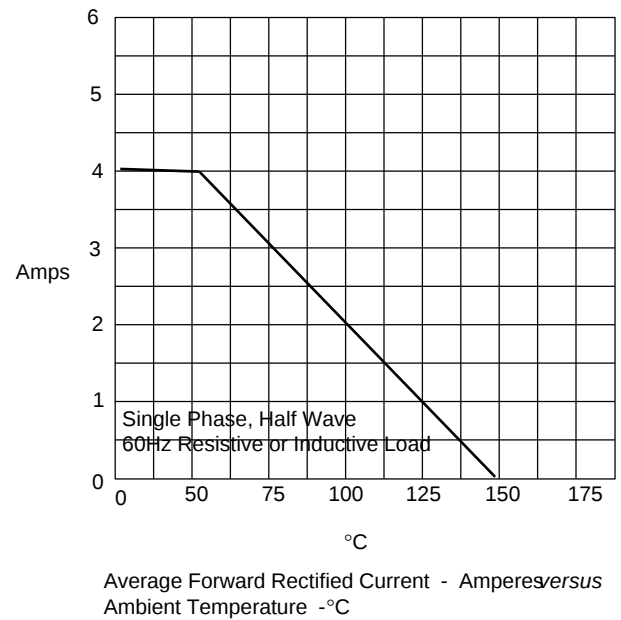
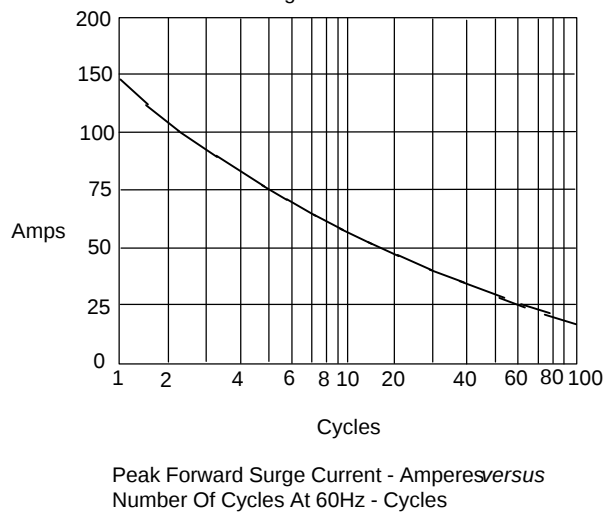


Figure 3
Peak Forward Surge Current





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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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