



Micro Commercial Components



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MUR405GP THRU MUR4100GP

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)

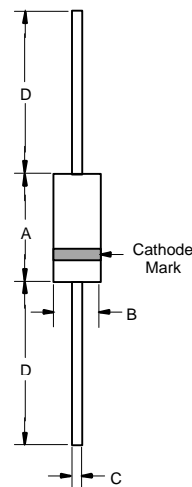
4 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts

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
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

DO-201AD



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 MUR405GP-415GP MUR420GP-460GP MUR480GP-4100GP	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	10 μA 50 μA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Maximum Reverse Recovery Time MUR405GP-415GP MUR420GP-460GP MUR480GP-4100GP	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 MUR405GP-460GP MUR480GP-4100GP	C_J	80pF 50pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	---	

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

MUR405GP thru MUR4100GP

Figure 1
Typical Forward Voltage

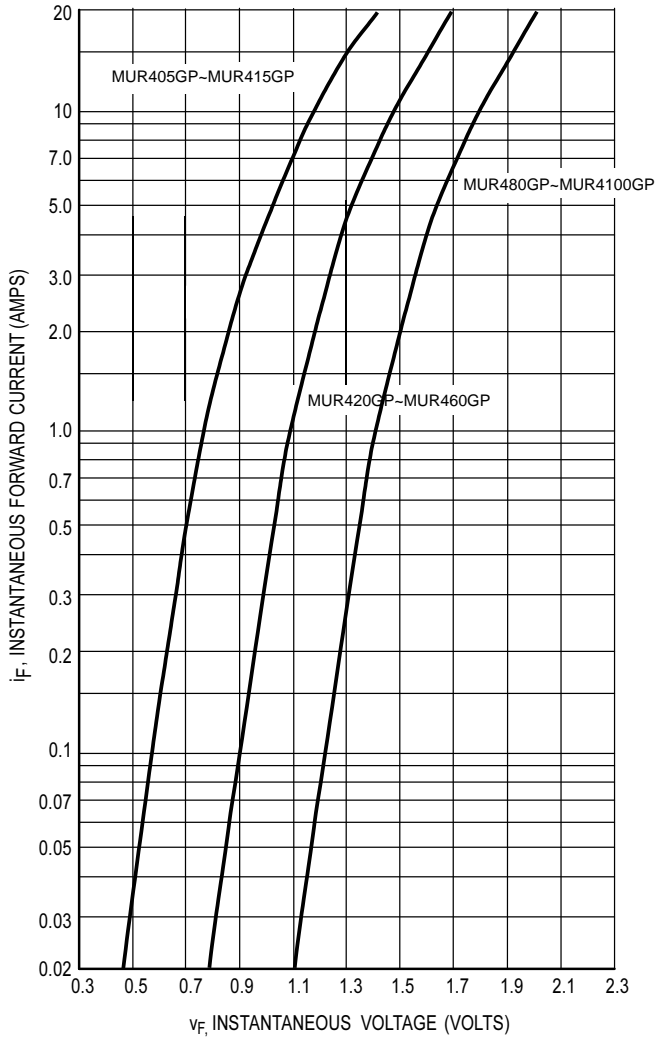
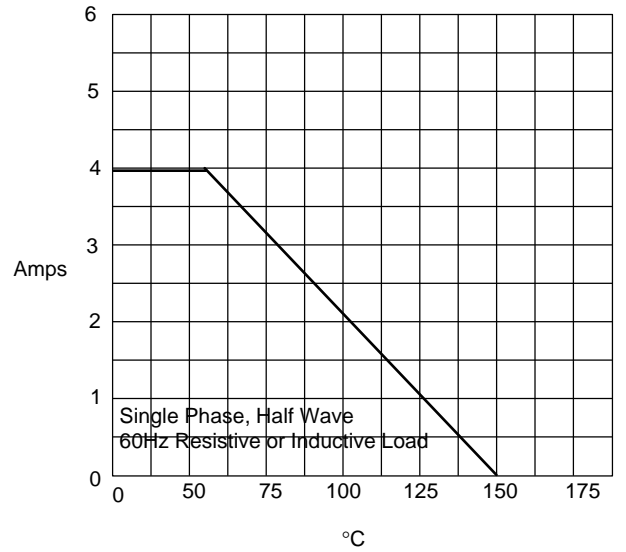
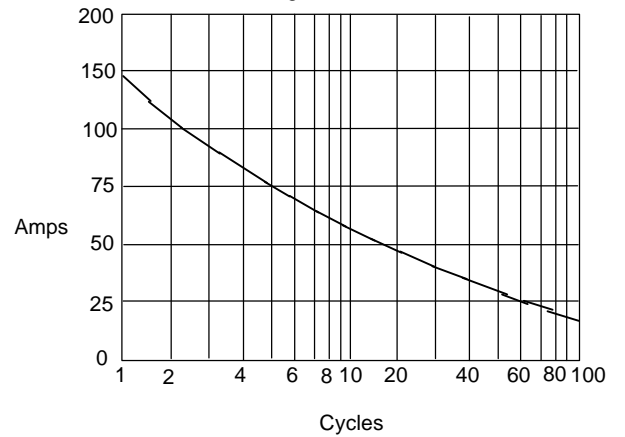


Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

Figure 3
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus 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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