

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MUR105GP **THRU** MUR160GP

Micro Commercial Components

Features

- Super Fast Switching Speed For High Efficiency
- Marking: Type Number
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

laximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR105GP	50V	35V	50V
MUR110GP	100V	70V	100V
MUR115GP	150V	105V	150V
MUR120GP	200V	140V	200V
MUR140GP	400V	280V	400V
MUR160GP	600V	420V	600V

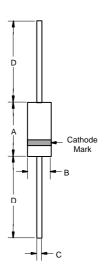
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MUR105GP-115GP MUR120GP-160GP	V _F	.97V 1.35V	I _{FM} = 1.0A; T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _A = 25°C T _A = 150°C
Maximum Reverse Recovery Time MUR105GP-140GP MUR160GP	T _{rr}	45ns 60ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance MUR105GP-115GP MUR120GP-160GP	Сл	15pF 10pF	Measured at 1.0MHz, V _R =4.0V

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

1.0 Amp Glass **Passivated Super Fast Recovery Rectifier** 50 to 600 Volts

DO-41

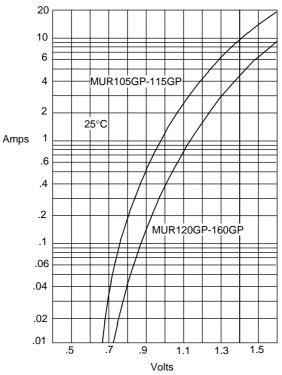


DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
С	.028	.034	.70	.90		
D	1.000		25.40			

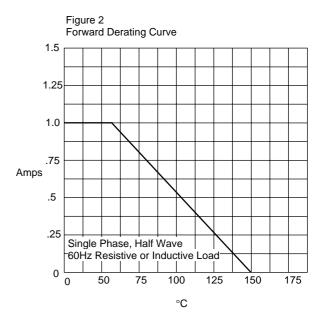
MUR105GP thru MUR160GP



Figure 1 Typical Forward Characteristics

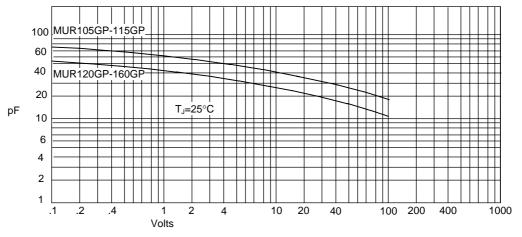


Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes versus Ambient Temperature - $^{\circ}\text{C}$





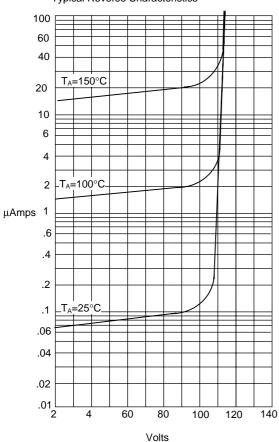
Junction Capacitance - pF *versus* Reverse Voltage - Volts

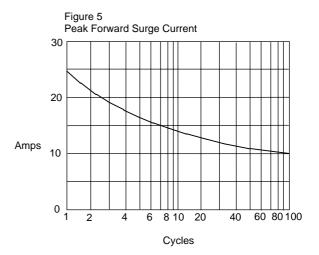
MUR105GP thru MUR160GP



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Figure 4
Typical Reverse Characteristics

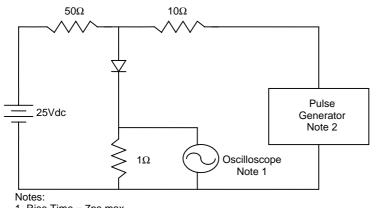




Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts

Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram



+0.5A

-1.0

-1.0

Set Time Base for 20/100ns/cm

1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive



Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 5Kpcs/Reel		
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box		
Part Number-BP	Bulk: 50Kpcs/Carton		

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