

**Micro Commercial Components** 



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## 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)

## Maximum Ratings

**Reverse Current At** 

Rated DC Blocking

Maximum Reverse

MUR105GP-140GP

MUR105GP-115GP

MUR120GP-160GP

MUR160GP

**Recovery Time** 

**Typical Junction** 

Capacitance

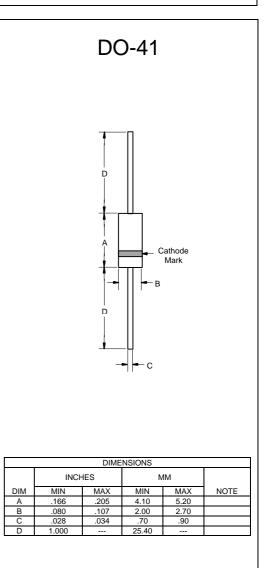
Voltage

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

		ximum			Maximum DC	
		current	Maximum		Blocking	
Part Number Peak		Reverse	RMS Voltage		Voltage	
	Vo	oltage				
MUR105GP		50V	35V		50V	
MUR110GP	MUR110GP 1		70V		100V	
MUR115GP	1	50V	105V		150V	
MUR120GP	2	200V	140V		200V	
MUR140GP	4	-00V	280V		400V	
MUR160GP	6	V000	420V		600V	
Electrical Characteristics @ 25°C Unless Otherwise Specified						
Average Forward Current		I <sub>F(AV)</sub>	1.0A	$T_A = 55^{\circ}C$		
Peak Forward Surge Current		I <sub>FSM</sub>	25A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage MUR105GP-115GP MUR120GP-160GP		V <sub>F</sub>	.97V 1.35V		= 1.0A; = 25°C	
Maximum DC						

## MUR105GP THRU MUR160GP

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



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

 $C_{J}$ 

 $I_R$ 

 $\mathsf{T}_{\mathsf{rr}}$ 

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 $T_A = 25^{\circ}C$ 

I<sub>rr</sub>=0.25A

Measured at

 $T_A = 150^{\circ}C$ 

I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A,

1.0MHz, V<sub>R</sub>=4.0V

5.0µA

50µA

45ns

60ns

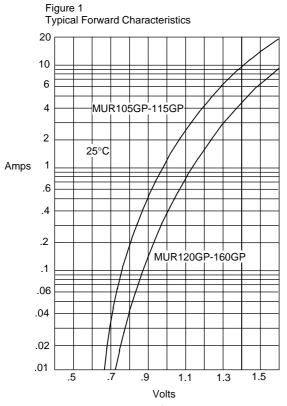
15pF

10pF

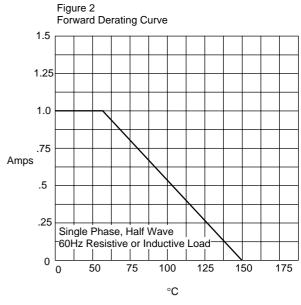
# MUR105GP thru MUR160GP



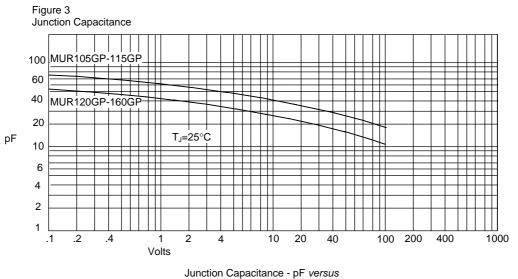
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Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts



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



Reverse Voltage - Volts



# MUR105GP thru MUR160GP



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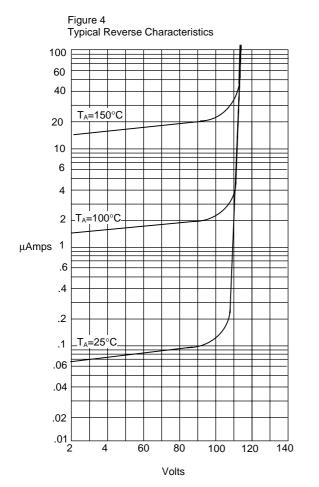


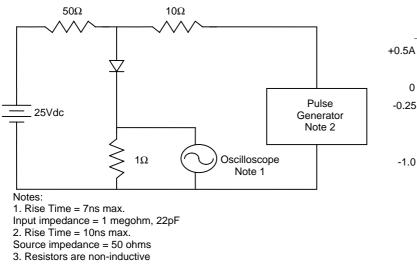
Figure 5 Peak Forward Surge Current Amps 10 0 1 2 4 6 8 10 20 40 60 80 100 Cycles

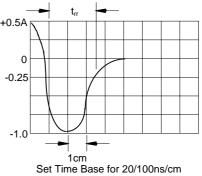
> Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

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

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram





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### **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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