

**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

### Features

- Halogen free available upon request by adding suffix "-HF" Super Fast Switching Speed For High Efficiency
- Marking:TypeNumber
- 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)

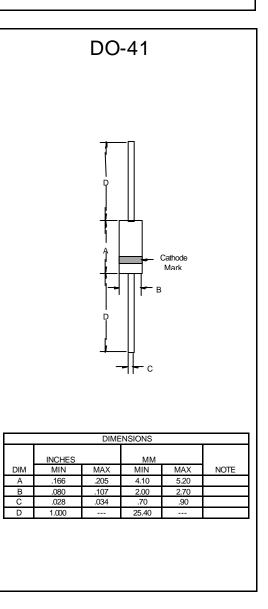
### Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

<u> </u>		0. 00 0 10				
MCC Part Number	R Pea	laximum ecurrent ak Reverse √oltage	Maximum RMS Voltage		Maximum DC Blocking Voltage	
MUR105		50V	35V		50V	
MUR110		100V	70V		100V	
MUR115		150V	105V		150V	
MUR120		200V	140V		200V	
MUR140		400V	280V		400V	
MUR160		500V	420V		600V	
MUR180		300V	560V		800V	
MUR1100		V000	700V		1000V	
Electrical Characteristics @ 25°C Unless Otherwise Specified						
Average Forward Current		I <sub>F(AV)</sub>	1 A		$T_A = 55^{\circ}C$	
Peak Forward Surge Current		I <sub>FSM</sub>	35A	8.3	8.3ms, half sine	
Maximum Instantaneous Forward Voltage MUR105-115 MUR120-160 MUR180-1100		V <sub>F</sub>	.975V 1.35V 1.75V		l <sub>=M</sub> = 1.0A; T <sub>A</sub> = 25°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage		I <sub>R</sub>	5μΑ 50μΑ	$\begin{array}{l} T_{A}=25^{\circ}C\\ T_{A}=150^{\circ}C \end{array}$		
Maximum Reverse Recovery Time MUR105-120 MUR140-160 MUR180-1100		Trr	60ns l <sub>r</sub> = 75ns		0.5A, I <sub>R</sub> =1.0A, 0.25A	
Typical Junction Capacitance		CJ	20pF		easured at MHz, V <sub>R</sub> =4.0V	

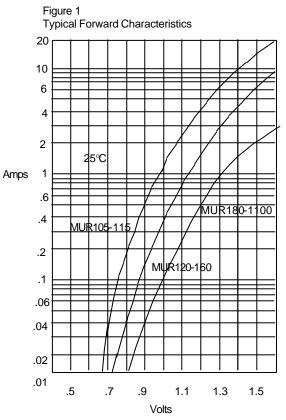
# **MUR105** THRU **MUR1100**

1 Amp Super Fast **Recovery Rectifier** 50 to 1000 Volts



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

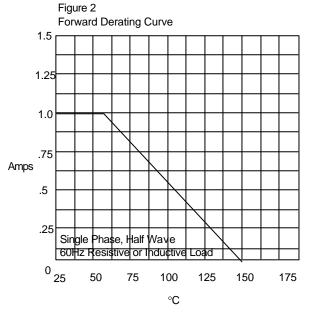
## MUR105 thru MUR1100



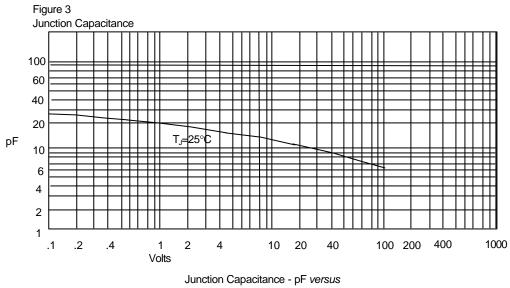
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



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

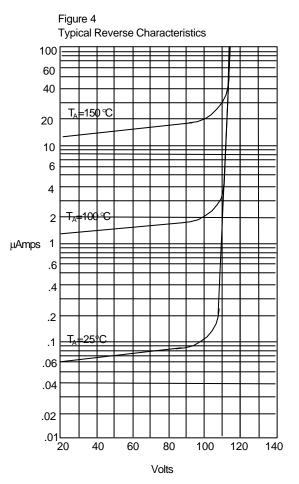


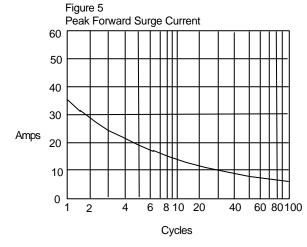
Reverse Voltage - Volts

## MUR105 thru MUR110



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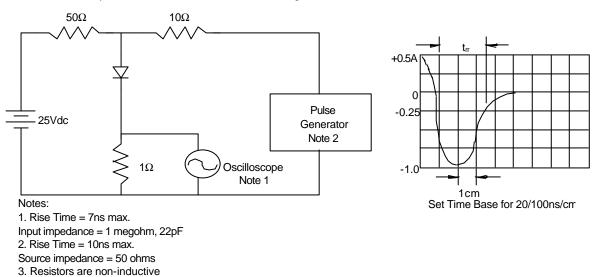


Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperes versus

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram





### **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		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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