Micro Commercial Components

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1H1G THRU 1H7G

1.0 Amp High Efficient Rectifier 50 - 1000 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Leakage Current
- Fast Switching for High Efficiency
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 95°C/W Junction To Ambient

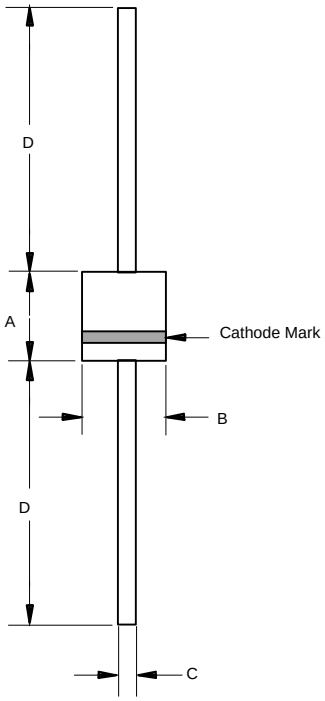
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1H1G	1H1G	50V	35V	50V
1H2G	1H2G	100V	70V	100V
1H3G	1H3G	200V	140V	200V
1H4G	1H4G	400V	280V	400V
1H5G	1H5G	600V	420V	600V
1H6G	1H6G	800V	560V	800V
1H7G	1H7G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	Ta (FIG.1)
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 1H1G-1H3G 1H4G 1H5G-1H7G	V_F	 1.0V 1.3V 1.7V	 I_{FM} = 1.0A; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 100μA	T_A = 25°C T_A = 125°C
Maximum Reverse Recovery Time 1H1G-1H4G 1H5G-1H7G	Trr	 50ns 75ns	 I_F=0.5A, I_R=1.0A I_{RR}=0.25A
Typical Junction Capacitance 1H1G-1H4G 1H5G-1H7G	C_J	 20pF 15pF	 Measured at 1.0MHz, V_R=4.0V

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

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DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.116	0.140	2.90	3.50	
B	0.080	0.107	2.00	2.70	
C	0.020	0.025	0.50	0.64	
D	0.787	-----	20.00	-----	

■Characteristics(Typical)

FIG.1FORWARD CURRENT DERATING CURVE

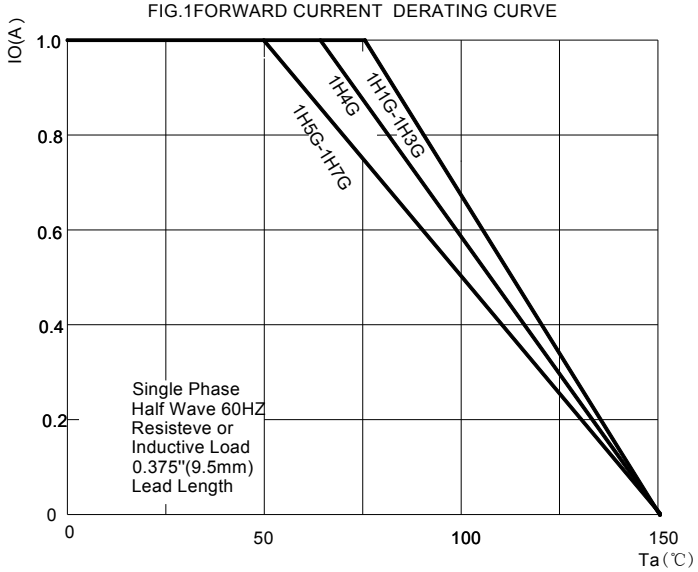


FIG.2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

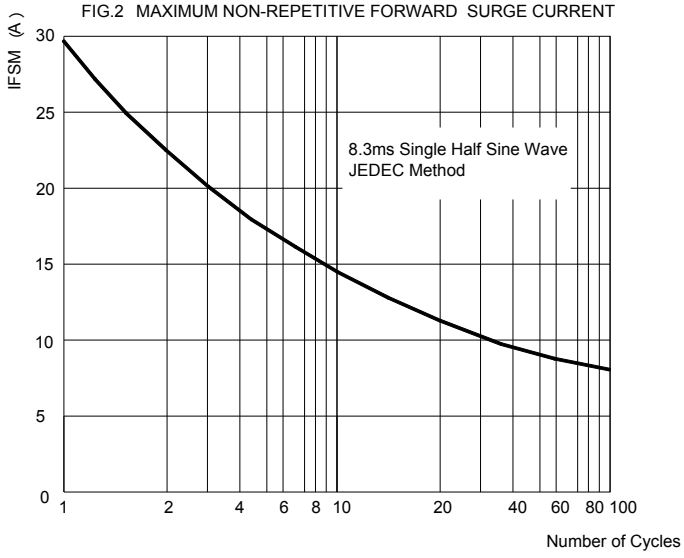


FIG.3 TYPICAL FORWARD CHARACTERISTICS

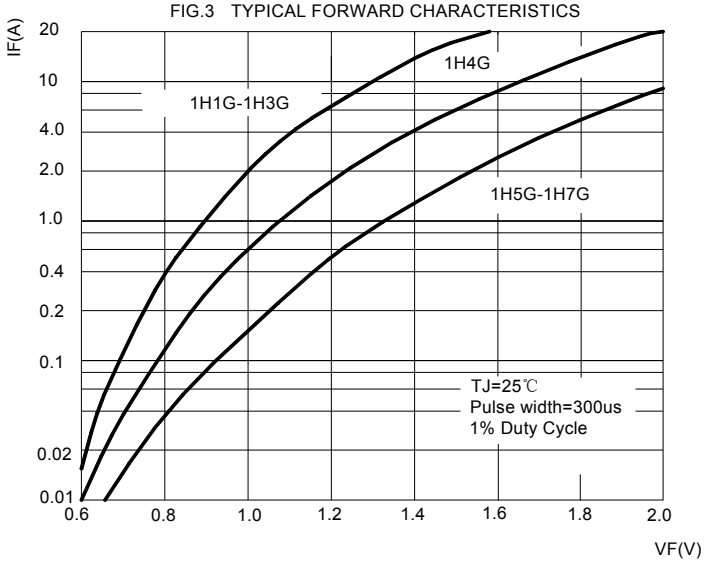


FIG.4 TYPICAL REVERSE CHARACTERISTICS

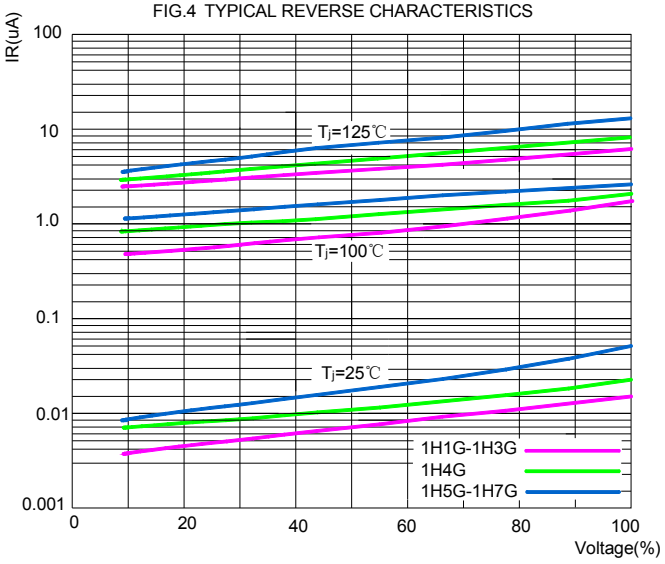
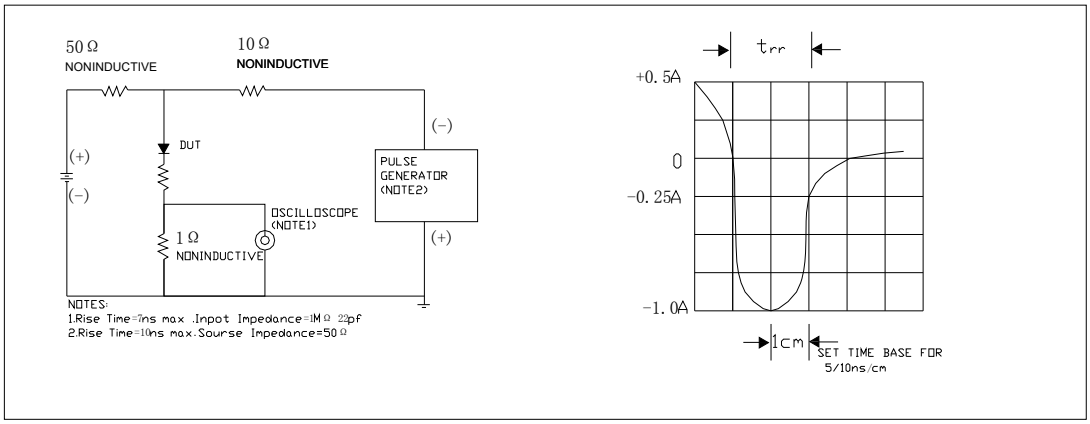


FIG.5 Diagram of circuit and Testing wave form of reverse recovery time



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box

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

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