

Micro Commercial Components



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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^oC/W Junction To Ambient

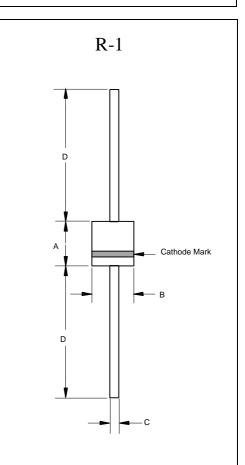
MCC Part	Device	Maximum Maximum		Maximum
Number	Marking	Recurrent RMS		DC
	-	Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
1H1G	1H1G	50V	35V	50V
1H2G	1H2G	100V	70V	100V
1H3G	1H3G	200V	140V	200V
1H4G	1H4G	400V	280V	400V
1H5G	1H5G	600V	420V	600V
1H6G	1H6G	800V	560V	800V
1H7G	1H7G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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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 ^o C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μΑ 100μΑ	$T_{A} = 25^{\circ}C$ $T_{A} = 125^{\circ}C$
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	CJ	20pF 15pF	Measured at 1.0MHz, V _R =4.0V

1H1G THRU 1H7G

1.0 Amp High Efficient Rectifier 50 - 1000 Volts



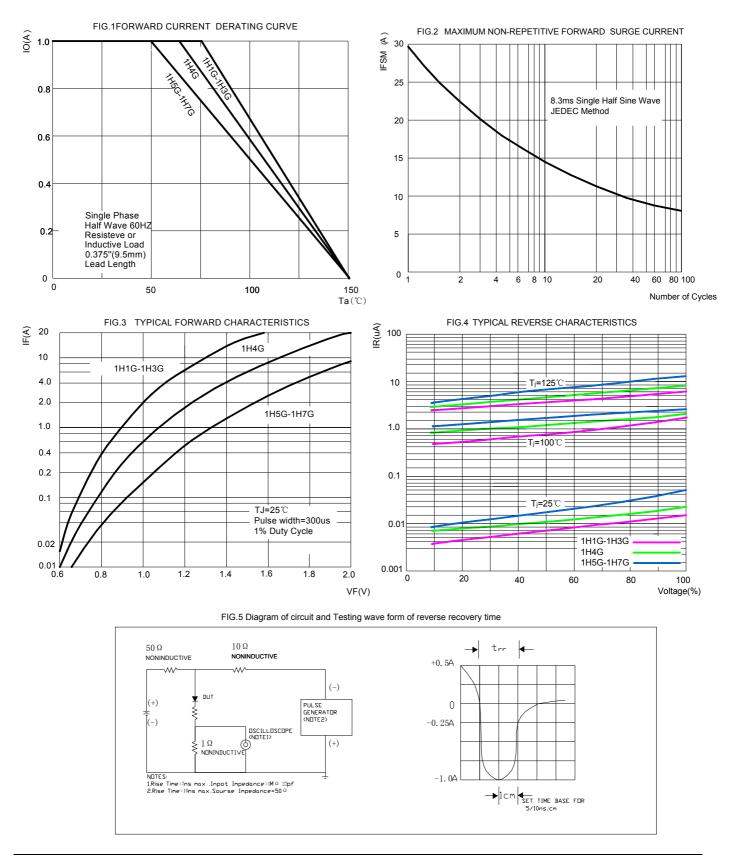
DIMENSIONS						
DIM	INCHES		ММ		NOTE	
	MIN	МАХ	MIN	MAX	NOTE	
A	0.116	0.140	2.90	3.50		
В	0.080	0.107	2.00	2.70		
с	0.020	0.025	0.50	0.64		
D	0.787		20.00			

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

www.mccsemi.com



Characteristics(Typical)



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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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