

Micro Commercial Components



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Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant, See ordering information)
- RoHS Compliant. See ordering information)
 High Efficiency and High Current Capability
- Low Forward Voltage Drop and Low Power loss
- Metal Silicon junction, majority carrier conduction
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : Cathode band and type number

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +125°C
- Typical Thermal Resistance: 50°C/W junction to Ambient
- For capacitive load. Derate current by 20%

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N17	20V	14V	20V
1N18	30V	21V	30V
1N19	40V	28V	40V

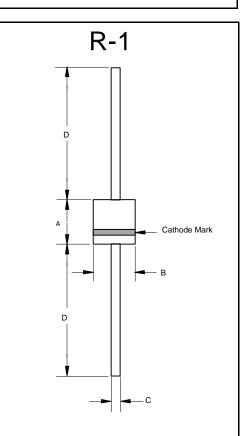
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Rectified Current	I _(AV)	1.0A	$T_A = 90^{\circ}C$
Peak Forward Surge Current	I _{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 1N17 1N18 1N19	V _F	0.45V 0.55V 0.60V	I _{FM} = 1.0A; T _C = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	R	0.5mA 10mA	$T_{\rm C} = 25^{\circ}{\rm C}$ $T_{\rm C} = 100^{\circ}{\rm C}$
Typical Junction Capacitance	CJ	110pF	Measured at 1.0MHz, V _R =4.0V

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

1N17 THRU 1N19

1.0 Amp Schottky Barrier Rectifier 20 to 40 Volts



DIMENSIONS					
DIM	INCHES		ММ		
	MIN	МАХ	MIN	МАХ	NOTE
А	0.116	0.140	2.90	3.50	
В	0.091	0.102	2.30	2.60	
С	0.020	0.024	0.50	0.60	
D	0.787		20.00		

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1N17 thru 1N19



FIG. I-FORWARD CURRENT DERATING CURVE

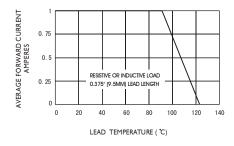


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

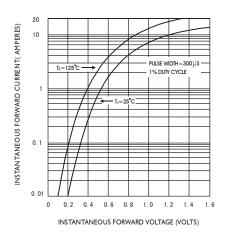


FIG.5-TYPICAL JUNCTION CAPACITANCE

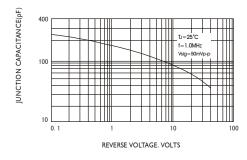


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

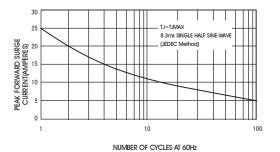


FIG.4-TYPICAL REVERSE CHARACTERISTICS

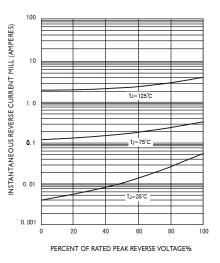
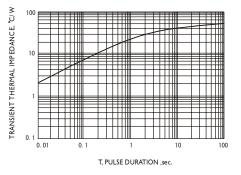


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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Ordering Information :

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

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