

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

1N17 **THRU** 1N19

- Features

 High Current Capability
- Low Power loss
- High Efficiency
- Low Forward Voltage Drop
- Metal Silicon junction, majority carrier conduction
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- 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%

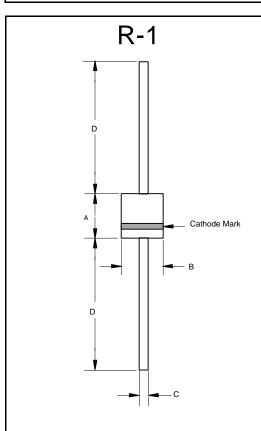
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N17	20V	14V	20V
1N18	30V	21V	30V
1N19	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Rectified Current	I _(AV)	1.0A	T _A = 90°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	l _R	0.5mA 10mA	T _C = 25°C T _C = 100°C
Typical Junction Capacitance	CJ	110pF	Measured at 1.0MHz, V _R =4.0V

Note: 300 us pulse width, 1% duty cycle

1.0 Amp Schottky **Barrier Rectifier** 20 to 40 Volts



DIMENSIONS							
DIM	INCHES		ММ				
	MIN	MAX	MIN	MAX	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				

1N17 thru 1N19



FIG. I-FORWARD CURRENT DERATING CURVE

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

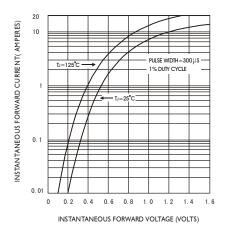


FIG.5-TYPICAL JUNCTION CAPACITANCE

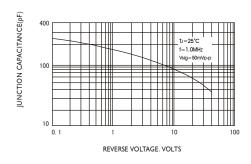


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

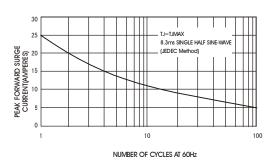


FIG.4-TYPICAL REVERSE CHARACTERISTICS

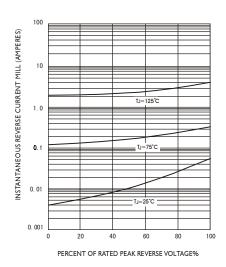
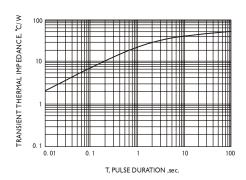


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE





Micro Commercial Components

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.