

# 1N17 THRU 1N19

# SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 40 Volts Forward Current - 1.0 Ampere

#### **FEATURES**

Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Metal silicon junction,majority carrier conduction Guardring for overvoltage protection Low power loss,high efficiency High current capability,low forward voltage drop High surge capability For use in low voltage,high frequency inverters, free wheeling,and polarity protection applications High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

## **MECHANICAL DATA**

Case: R-1 molded plastic body

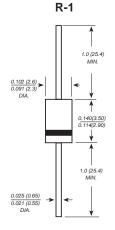
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.20 gramS



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for current capacitive load derate by 20%.

	SYMBOLS	1N17	1N18	1N19	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	V
Maximum RMS voltage	VRMS	14	21	28	V
Maximum DC blocking voltage	VDC	20	30	40	V
Maximum average forward rectified current 0.375"(9.5mm) lead length at TL=90 ℃	l(AV)	1.0			А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İrsm	25.0			А
Maximum instantaneous forward voltage at 1.0A	VF	0.450	0.550	0.600	V
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	0.5 10.0			mA
Typical junction capacitance (NOTE 1)	Cı	110.0			pF
Typical thermal resistance (NOTE 2)	RθJA	50.0			°C/W
Operating junction and storage temperature range	Тл,Твтв	-55 to +125			°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



# **RATINGS AND CHARACTERISTIC CURVES 1N17 THRU 1N19**

