



1N5817 thru 1N5819

Schottky Barrier Rectifiers

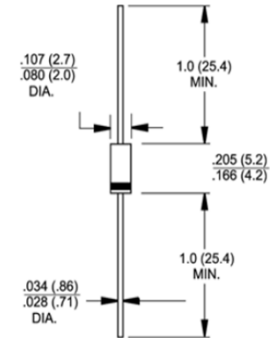
Reverse Voltage 20V to 40V Forward Current 1.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guardring for overvoltage protection



DO-204AL (DO-41)



Mechanical Data

- Case: DO-204AL(DO-41) molded plastic body
- Terminals: Plated leads, solderable per MIL-STD-750, Method 2026
High temperature soldering guaranteed: 250°C/10 seconds at terminals
0.375" (9.5mm) lead length, 5lbs(2.3kg) tension for axials
- Polarity: Color band denotes cathode end
- Weight: plastic body DO-41, 0.33 gram, 0.012 ounce

MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS

T_a = 25 °C unless otherwise specified

PARAMETER	SYMBOL	1N5817	1N5818	1N5819	UNIT
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 non-repetitive peak reverse voltage	V _{RSM}	24	36	48	V
Maximum average forward rectified current at T _L =90°C	IF(AV)	1.0			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) at T _L =70°C	IFSM	25			A
Maximum forward voltage at 1.0A (Note 1)	VF	0.45	0.5	0.50	V
Maximum forward voltage at 3.1A (Note 1)	VF	0.75	0.875	0.90	V
Maximum DC reverse current at rated DC blocking voltage	T _J =25°C	0.1			mA
	T _J =125°C	8			
Typical thermal resistance(Note 2)	R _{θJA}	76			°C/W
	R _{θJC}	41			
	R _{θJL}	32			
Typical junction capacitance at 4.0v, 1.0MHZ	C _J	110			pF
Operating junction temperature range	T _J	- 55 to + 125			°C
storage temperature range	T _{STG}	- 55 to + 150			°C

Notes: 1. Pulse test: 300 us pulse width, 1% duty cycle

2. Thermal Resistance at .375(9.5mm) Lead Length, PC Board Mounted



GOOD-ARK

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RATINGS AND CHARACTERISTICS CURVES

