

1 AMP SCHOTTKY BARRIER RECTIFIER

1N5817 THRU 1N5819

TECHNICAL SPECIFICATION

FEATURES

- Low cost construction utilizing void free moulded plastic technique
- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Diffused junction
- High surge current capability
- Low leakage
- High temperature soldering capability:
 250°C/10 seconds/9.5mm (.375in.) lead length at
 2.3kg (5lb) tension
- Easily cleaned with Freon, Alcohol, Chlorothene and other similar solvents

MECHANICAL DATA

Case : JEDEC DO-41, moulded plastic

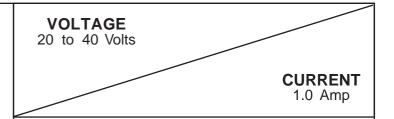
Terminals : Plated axial leads, solderable

per MIL-STD-202, Method 208

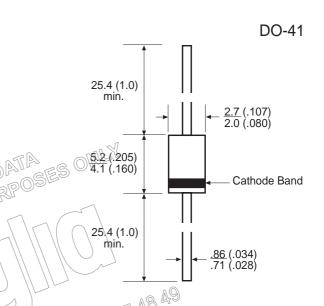
Polarity : Colour band denotes cathode end.

Mounting Position : Any

Weight : 0.36 grams (0.012 ounce)



DIMENSIONS - millimeters (inches)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

_ A (O)/450					
0.13.	Symbols	1N5817	1N5818	1N5819	Units
	V_{RRM}	20	30	40	V
	V _{RMS}	14	21	28	V
	V _{DC}	20	30	40	V
	I _{F(AV)}	1.0			А
	I _{FSM}	25			А
ge	T _j T _{STG}	-60 to + 125		V	
@ I _F = 1AMP	V _F	0.450	0.550	0.60	V
@ I _F = 3AMP	V _F	0.750	0.875	0.90	V
@ T _A = 25°C	I _R	1.0			mA
@ T _A = 100°C	I _R	10			mA
t (Note 1)	R _{thA}	130		°C/W	
	CJ		110		pF
	@ I _F = 3AMP @ T _A = 25°C	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	V _{RRM} 20 V _{RMS} 14 V _{DC} 20 I _{F(AV)} QCIe @ I _F = 1AMP V _F 0.450 @ I _F = 3AMP V _F 0.750 @ T _A = 25°C I _R @ T _A = 100°C I _R It (Note 1) R _{thA}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Notes:

- 1. Thermal Resistance from Junction to Ambient with vertical mounting to pc board (12.7mm lead Length).
- 2. Measured at 1MHz and applied reverse voltage at 4.0 volts.
- 3. Valid provided that leads are kept at specified temperature at a distance of 10mm from case.



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RATING AND CHARACTERISTIC CURVES

