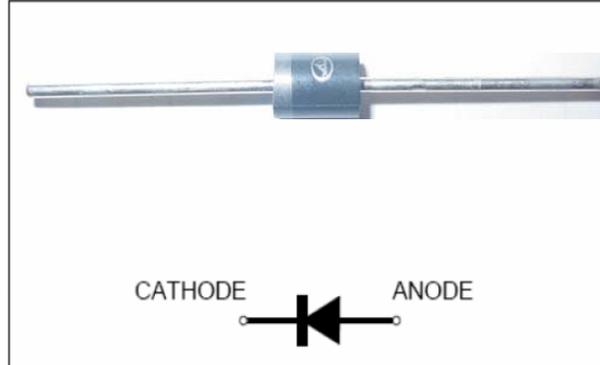


1N5817-E thru 1N5819-E

Schottky Barrier Rectifiers Reverse Voltage 20 to 40V Forward Current 1.0A

Feature & Dimensions

- * 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
- * Guarding for over voltage protection
- * High temperature soldering guaranteed:
260°C/10 seconds at terminals
- * Green epoxy mold compound
- * IEC61000-4-2 ESD Air Contact ± 15 KV



Mechanical Data

Case: JEDEC DO-41, molded plastic over glass body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.011 oz., 0.284 g

Handling precaution: None

We declare that the material of product compliance with ROHS requirements

1. Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	1N5817-E	1N5818-E	1N5819-E	Unit
device marking code		1N5817-E	1N5818-E	1N5819-E	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V_{RMS}	14	21	28	V
Maximum DC blocking voltage	V_{DC}	20	30	40	V
Maximum average forward rectified current 0.375" (9.5mm) lead length (See fig. 1)	$I_{F(AV)}$	1.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	25			A
Typical thermal resistance (Note 1)	$R_{\theta JA}$	50			°C/W
Operating junction and storage temperature range	TJ, TSTG	-40 to +150			°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

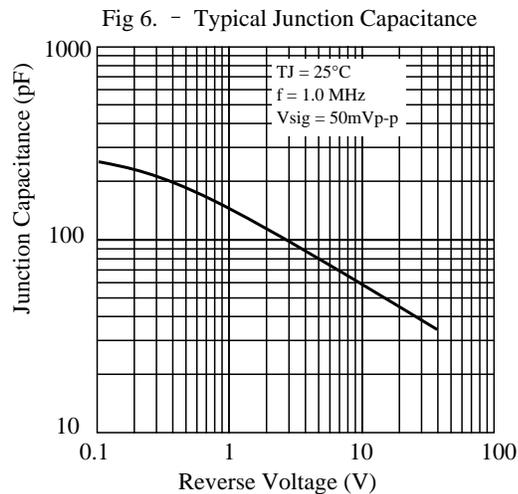
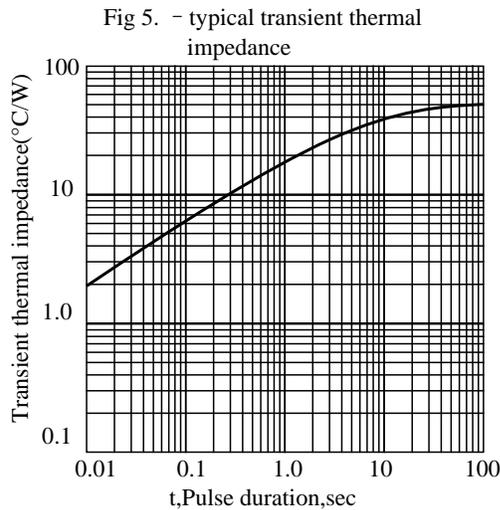
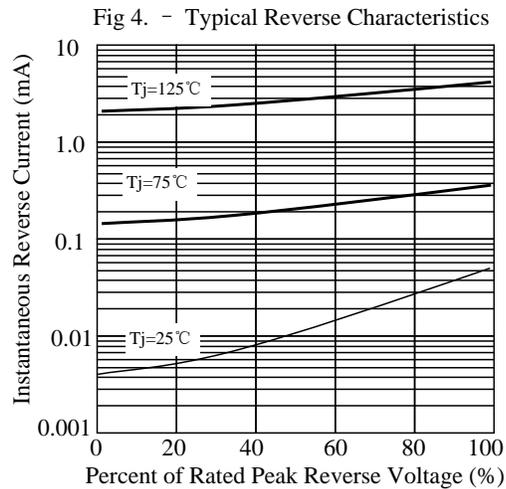
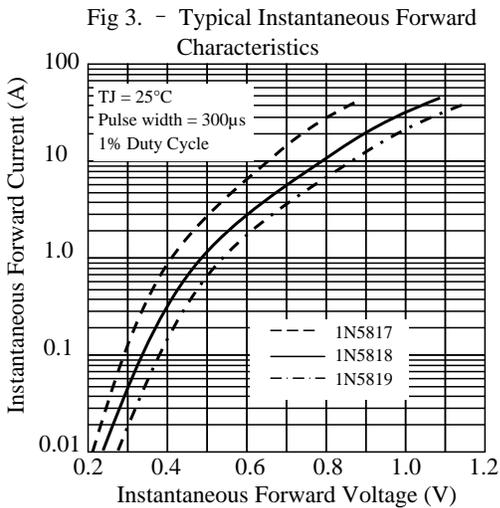
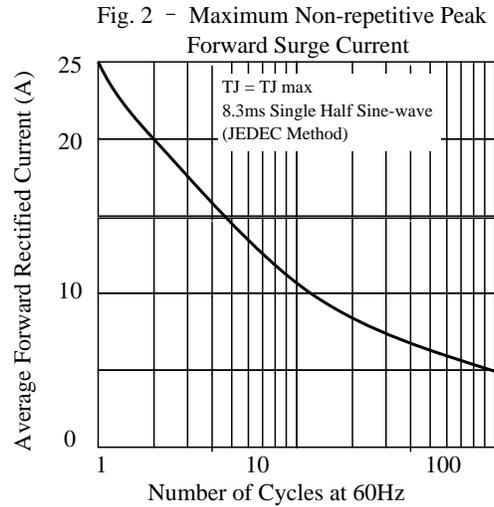
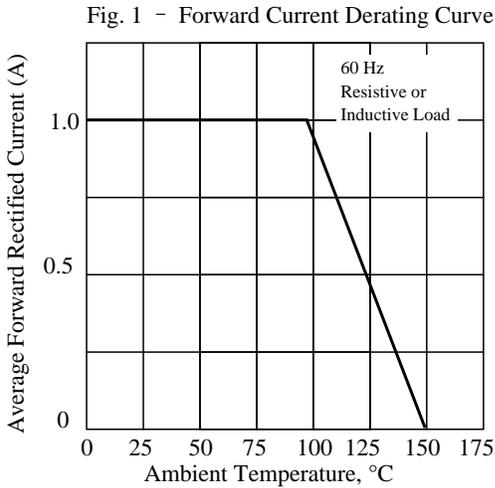
Parameter Symbol	symbol	1N5817-E	1N5818-E	1N5819-E	Unit
Maximum instantaneous forward voltage at 1.0A	V_F	0.45	0.5	0.55	V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	IR	1.0 10			mA
Typical junction capacitance at 4.0V, 1MHz	CJ	110			PF

NOTES:

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

1N5817-E thru 1N5819-E

2. Characteristic Curves (TA = 25°C unless otherwise noted)



1N5817-E thru 1N5819-E

3. dimension:

