

## 1N5817 THRU 1N5819 1.0AMP. Schottky Barrier Rectifier

VOLTAGE: 20 TO 40V      CURRENT: 1.0A



### Specification Features:

- Case: Epoxy, Molded
- Weight: 0.4Gram (Approximately)
- High current capability, Low forward voltage drop
- High surge current capability
- Finish: All External Surfaces Corrosion Resistant And Terminal Leads Are Readily Solderable
- Lead And Mounting Surface Temperature For Soldering Purposed:  
260°C Max. For 10 Seconds 1/16 Inch From Case
- RoHS Compliant
- Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM



1N58XX : Device Name 1N5817-1N5819  
KEL : KEL Logo

### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

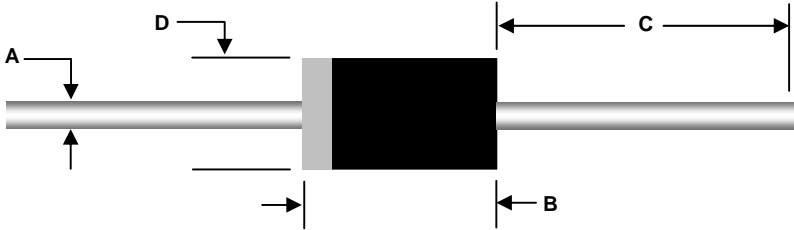
Parameter	Symbol	1N5817	1N5818	1N5819	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	V
Maximum DC Blocking Voltage	$V_R$	20	30	40	V
Maximum Average Forward Rectifier Current. (0.375" Lead Length @ $T_A=75^\circ\text{C}$ )	$I_{F(AV)}$	1.0			A
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	$I_{FSM}$	25			A
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-65 to +125			$^\circ\text{C}$
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	80			$^\circ\text{C/W}$

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	1N5817	1N5818	1N5819	Units
Maximum D.C Reverse Current @ $T_A=25^\circ\text{C}$ At Rated D.C Blocking Voltage @ $T_A=100^\circ\text{C}$	$I_R$	1.0 10.0			mA
Forward Voltage @1A @3A	$V_F$	0.450 0.750	0.550 0.875	0.600 0.900	V
Total Capacitance @VR=4V, f=1MHz	$C_T$	110			pF

**NOTE:** (1) Thermal resistance from junction to ambient at 0.375" lead length, vertical P.C. board mounted

## Package Outline

Package	Case Outline				
DO-41					
	DIM	DO-41			
		Millimeters		Inches	
		Min	Max	Min	Max
	A	0.69	0.90	0.027	0.034
	B	4.20	5.20	0.166	0.205
C	25.40	---	1.000	---	
D	2.00	2.70	0.080	0.107	