

## 1N5817-1N5819

### **SCHOTTKY RECTIFIERS**

#### **FEATURES**

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

#### **MAXIMUM RATINGS**

Characteristics	Symbol	Value	
Storage temperature range	T <sub>STG</sub>	-55 to + 150°C	
Operating junction temperature range	T <sub>J</sub> -55 to +150°C		
Maximum thermal resistance	$R_{\theta JL_{r}}L=\mathcal{V}_{a}^{\prime\prime}$	15°C/W Junction to lead	
Working peak reverse voltage			
1N5817	$V_{\text{RWM}}$	20V	
1N5818	V <sub>RWM</sub>	30V	
1N5819		40V	
Repetitive peak reverse voltage			
1N5817	V	20V	
1N5818	V <sub>RRM</sub>	30V	
1N5819		40V	
Weight		0.011 ounces (0.34 grams) typical	

### **ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise specified)

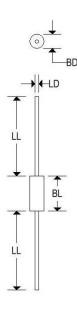
Parameters	Symbol	Test Conditions	1N5817	1N5818	1N5819
Average forward current	I <sub>F(AV)</sub>		1A	1A	1A
Ambient temperature	T <sub>A</sub>	R <sub>OJL</sub> = 15°C/W, L = ¼"	135°C	130°C	130°C
Maximum surge current	I <sub>FSM</sub>	8.3 ms, half sine, T <sub>J</sub> = 150°C 50A		50A	50A
Maximum peak forward voltage	V <sub>FM</sub>	I <sub>FM</sub> = 0.1A, T <sub>J</sub> = 25°C*	.32V	.37V	.37V
Maximum peak forward voltage	$V_{FM}$	I <sub>FM</sub> = 1.0A, T <sub>J</sub> = 25°C*	.45V	.55V	.55V
Maximum peak forward voltage	$V_{FM}$	I <sub>FM</sub> = 3.0A, T <sub>J</sub> = 25°C*	.65V	.85V	.85V
Maximum peak reverse current	I <sub>RM</sub>	V <sub>RRM</sub> , T <sub>J</sub> = 25°C 1mA		1mA	1mA
Typical junction capacitance	C <sub>J</sub>	V <sub>R</sub> = 5.0V, T <sub>J</sub> = 25°C	105pF	50pF	50pF

<sup>\*</sup>Pulse test: Pulse width 300µsec, duty cycle 2%.



#### **MECHANICAL CHARACTERISTICS**

Case:	DO-41	
Marking:	Body painted, alpha-numeric	
Polarity:	Cathode band	



	DO-41				
	Inches		Millimeters		
	Min	Max	Min	Max	
BD		0.107	-	2.720	
BL	- 5	0.205	-	5.207	
LD	0.028	0.034	0.711	0.864	
LL	1.000	188	25.400	1.5	

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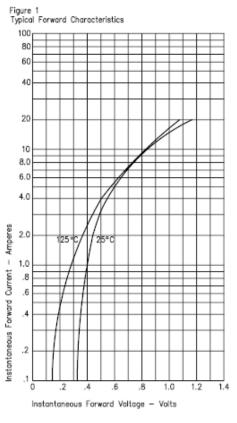
SCHOTTKY RECTIFIERS

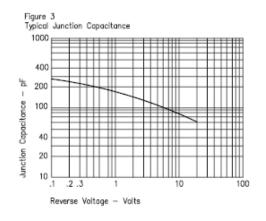


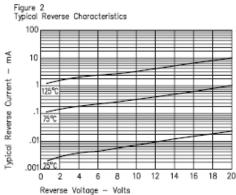
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### **SCHOTTKY RECTIFIERS**

# 1N5817









## 1N5817-1N5819

### **SCHOTTKY RECTIFIERS**

# 1N5818 & 1N5819

