

1N5817 THRU 1N5819

Surface Mount Schottky Barrier Recitifiers		Reverse Voltage - 20 to 40 Volts Forward Current - 1.0 Amperes			
Features		DO-41			Pb
 Low forward voltage drop 					
 High surge capability 		1			RoHS
 The plastic material carries UL recognition 94V-0 					COMPLIANT
			.034 (0.9) 028 (0.7) D	ia	
Mechanical Data		1.0(25	(0.7)	ia.	
●Case: JEDEC DO-41 molded plastic		Mir	1.		
 Polarity: Color band denotes cathode 					
Mounting position: Any		.205 (5.2)			
Note: Products with logo		.165 (4.2)			
are made by HY Electronic (Cayman) Limited.		A			
		_	106 (2.7) .079 (2.0) □	Dia.	
Applications		1.0 (2			
 For use in low vlotage, high frequency inverters, polarity 		Mir	1.		
protection applications					
		Package Outline Dimensions in Inches (Millimeters)			ers)
Maximum Ratings and Electrical Characteri					
Rating at 25°C ambient temperature unless otherwise specifie	ed.				
Single phase, half wave, 60Hz, resistive or inductive load.					
For capacitive load, derate current by 20%.					
Characteristics	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 Average Forward Rectified Current @ TA=75 $^\circ\!\!\!\mathrm{C}$	l(AV)	1.0		А	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Irou	25		Δ	
Superimposed on Rated Load (JEDEC Method)	IFSM	25			A
Maximum Forward Voltage at 1.0A DC	VF	0.45	0.55	0.6	V
Maximum Forward Voltage at 3.0A DC	VF	0.75	0.875	0.9	V
Maximum DC Reverse Current @Tj=25°C	IR	1.0 10		mA	
at Rated DC Blocking Voltage @TJ=100 $^\circ\!\!\!\mathrm{C}$	IK				
Typical Junction Capacitance (Note1)	CJ	110		pF	
Typical Thermal Resistance Junction to Ambient	Reja	80		°C/W	
Junction Temperature Range	TJ	-55 to +150		°C	
	_				

Tstg

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2. The typical data above is for reference only.

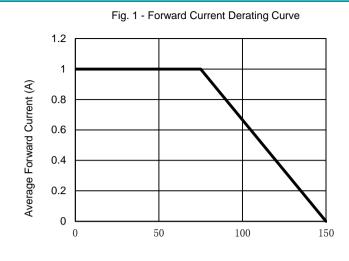
Storage Temperature Range

1N58*-A/B/T-00/99-00/01 Rev. 11, 18-May-2020

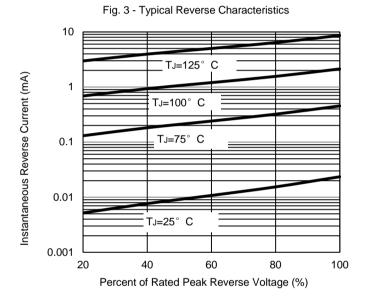
°C

-55 to +150

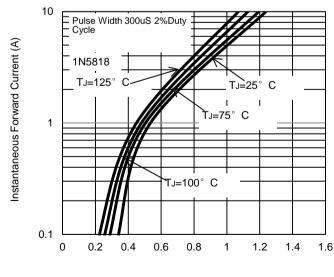
Rating and Characteristic Curves 1N5817 THRU 1N5819



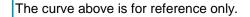


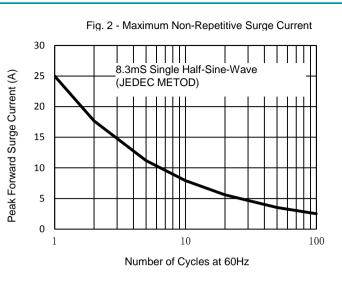






Instantaneous Forward Voltage (V)







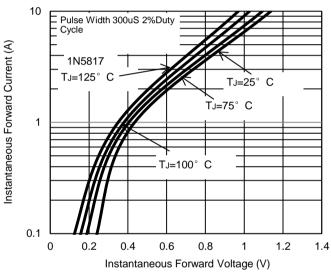
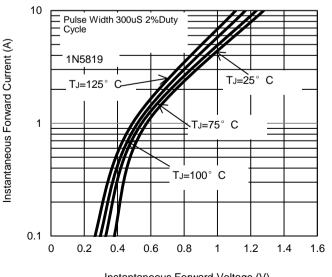


Fig. 6 - Typical Forward Characteristics



Instantaneous Forward Voltage (V)



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