



SCHOTTKY BARRIER RECTIFIERS

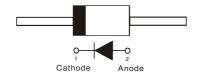
VOLTAGE 20 to 40 Volt 1 Ampere

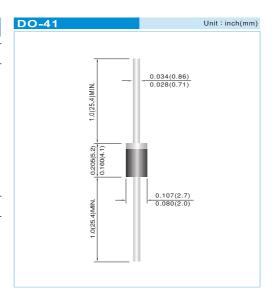
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- For use in low voltage, high frequency inverters , free wheeling ,and polarity protection applications .
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- · Case: DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode
- · Weight: 0.0118 ounces, 0.336 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	1N5817	1N5818	1N5819	UNITS
Maximum Recurrent Peak Reverse Voltage		20 30		40	V
Maximum RMS Voltage		14 21		28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	٧
Maximum Average Forward Current 0.375"(9.5mm) lead length (See Figure1)	I _{F(AV)}	1			Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}		А		
Maximum Forward Voltage at 1A DC Maximum Forward Voltage at 3A DC	V _F	0.47 0.75	0.55 0.875	0.6 0.9	V
Maximum DC Reverse Current at Rated DC Blocking $T_J = 25^{\circ}C$ Voltage $T_J = 100^{\circ}C$	I _R	0.2 10			m A
Typical Thermal Resistance	R _{eJA}		80		°C / W
Operating Junction and Storage Temperature Range	T_J,T_STG	-55 to +125 -55 to		-55 to +150	°C

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RATING AND CHARACTERISTIC CURVES

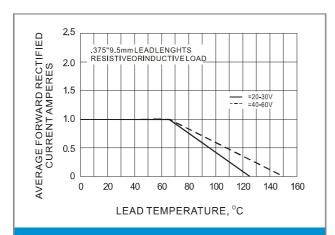


Fig.1 FORWARD CURRENT DERATING CURVE

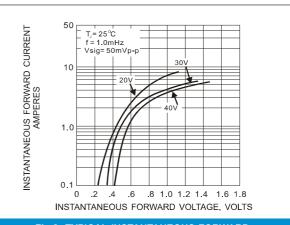


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

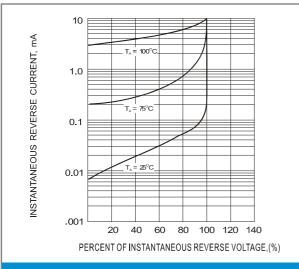


Fig.3 TYPICAL REVERSE CHARACTERISTIC

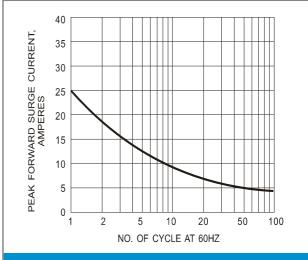


Fig.4 MAXIMUM NON - REPETITIVE SURGE CURRENT

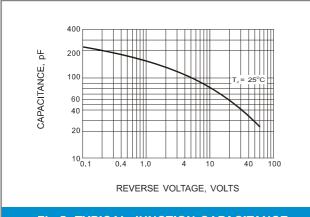


Fig.5 TYPICAL JUNCTION CAPACITANCE

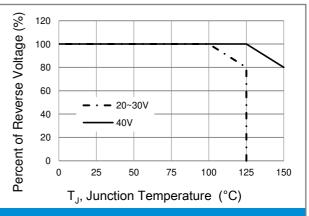


Fig. 6 Operating Temperature Derating Curve

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Part No_packing code_Version

1N5817_AY_00001

1N5817_AY_10001

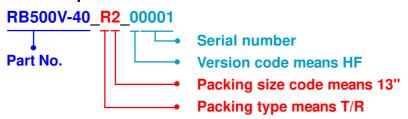
1N5817_B0_00001

1N5817_B0_10001

1N5817_R2_00001

1N5817_R2_10001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				

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