

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N5817 THRU 1N5819

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 40 Volts CURRENT - 1.0 Ampere

FEATURES

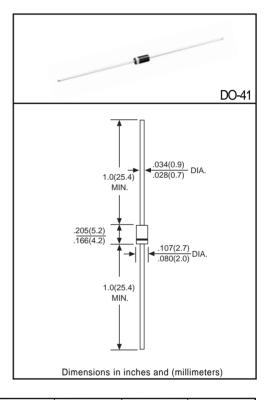
- * Low switching noise
- * Low forward voltage
- * High current capability
- * High speed switching
- * High surge capability
- * High relibility

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.33 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

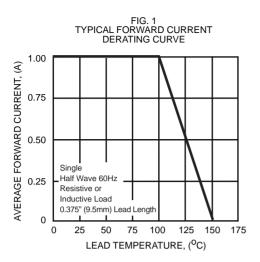


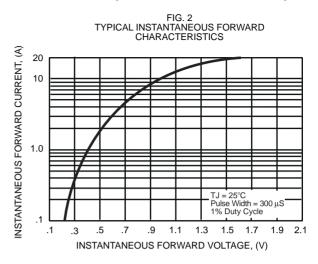
		SYMBOL	1N5817	1N5818	1N5819	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	Volts
Maximum RMS Voltage		VRMS	14	21	28	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length		lo	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30			Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.45	.55	.60	Volts
Maximum Forward Voltage at 3.0A DC		VF	.75	.875	.90	Volts
Maximum DC Reverse Current	@Ta = 25°C	- IR	1.0			- mAmps
at Rated DC Blocking Voltage	@Ta = 100°C		5.0			
Typical Thermal Resistance (Note 1)		RθJA	50			°C/W
Typical Junction Capacitance (Note 2)		Сл	110			pF
Storage and Operating Temperature Range		TJ, TSTG	-55 to +150			°C

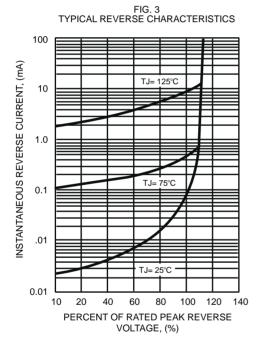
NOTES: 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.375"(9.5mm) Lead Length.

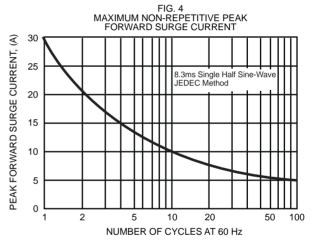
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

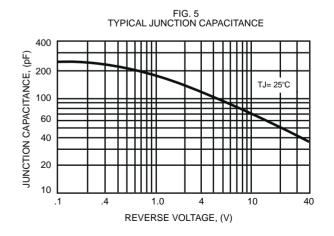
RATING AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)











Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* are harmless against all damages.

DC COMPONENTS disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

DC COMPONENTS reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications (eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death (eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.

