

1N5817 ~ 1N5819

FEATURES

- Overvoltage protection
- Low forward voltage
- Low power loss, high efficiency
- High surge current capability
- High temperature soldering guaranteed 250°C/10 seconds, 0.375" (9.5mm) lead length
- RoHS and REACH Compliance



**DO204AL
(DO-41)**



MECHANICAL DATA

Case	DO-204AL(DO-41), transfer molded plastic
Epoxy	UL94V – 0 rate flame retardant
Lead	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity	Color band denotes cathode end
Mounting position	Any
Weight	0.012 Ounce, 0.33 gram

MAXIMUM RATINGS (T_{Ambient}=25°C unless noted otherwise)

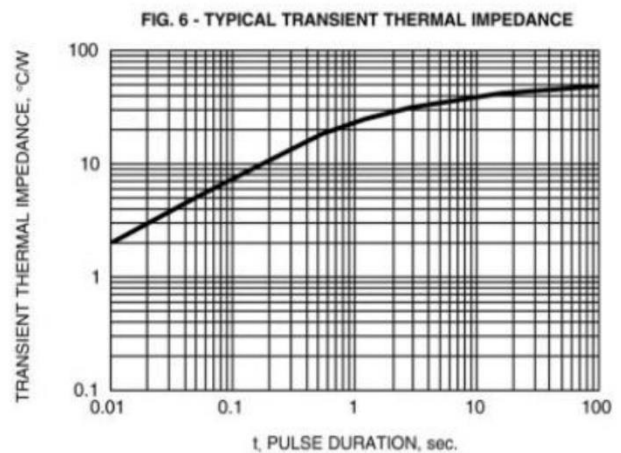
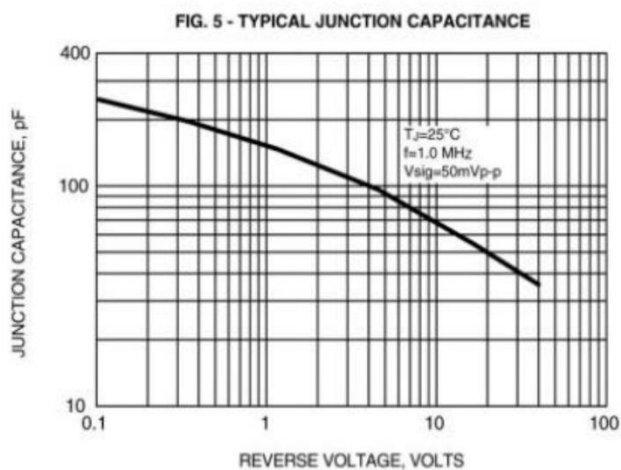
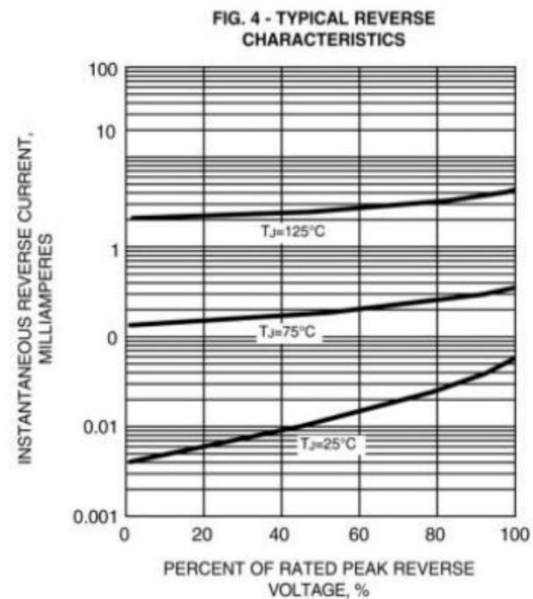
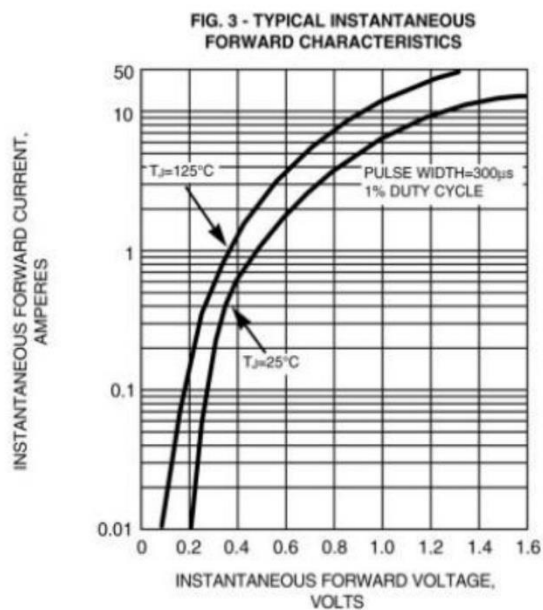
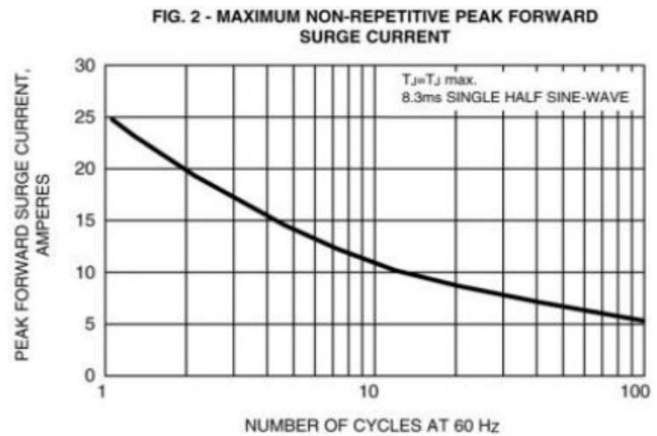
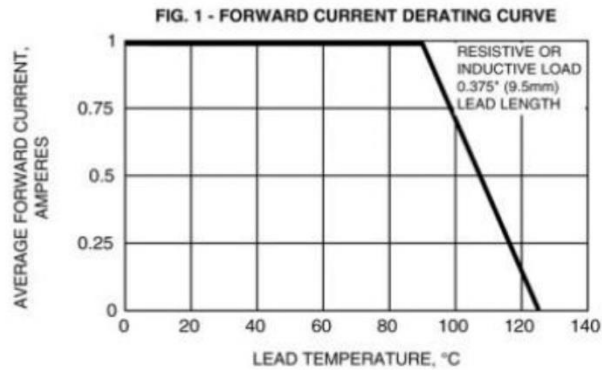
Parameter [Conditions]	Symbol	1N5817	1N5818	1N5819	Unit
Max Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	V
Max RMS Voltage	V _{RMS}	14	21	28	V
Max DC Blocking Voltage	V _{DC}	20	30	40	V
Max Average Forward Rectified Current [.0375" (9.5mm), T _C =90°C (Note 1)]	I _{F(AV)}	1.0			A
Peak Forward Surge Current [JEDEC method]	I _{FSM}	25			A
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +125			°C

ELECTRICAL CHARACTERISTICS (T_{Ambient}=25°C unless noted otherwise)

Parameter [Conditions]	Symbol	1N5817	1N5818	1N5819	Unit
Max Instantaneous Forward Voltage [1.0A] [3.0A]	V _F	0.450 0.750	0.550 0.875	0.600 0.900	V
Max DC Reverse Current at Rated DC Blocking Voltage [T _A =25°C] [T _A =100°C]	I _R	1.0 10			mA
Typical Junction Capacitance [At 1MHz, reversed voltage of 4V]	C _J	110			pF
Typical Thermal Resistance [Note 1]	R _{θJA}	50			°C/W

Note : (1) Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted, with 1.5" x 1.5" (38cm x 38cm) copper pads

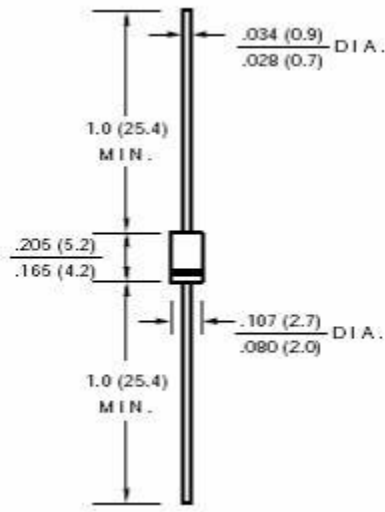
TYPICAL CHARACTERISTICS CURVES



All products, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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DIMENSIONS in inch (mm)



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