



DESCRIPTION

The 1N5817DO41~1N5819DO41 are available in DO-41 package.

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Solder plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any
- Approx. Weight: 0.25g / 0.0088oz

ORDERING INFORMATION

Package Type	Part Number
DO-41	1N5817DO41
	1N5818DO41
	1N5819DO41
Note	SPQ: 5,000pcs/Box
AiT provides all RoHS Compliant Products	

FEATURE

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0V
- Guardring for overvoltage protection
- Low reverse leakage
- High Forward Surge Current Capability
- High temperature soldering guaranteed 260 C/10 seconds at terminals

PIN DESCRIPTION



DO-41



PIN#	DESCRIPTION
1	CATHODE
2	ANODE



ABSOLUTE 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 current derate by 20%.

Parameter		Symbol	1N5817DO41	1N5818DO41	1N5819DO41	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	V
Maximum RMS Voltage		V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current at T _L =100°C		I _{F(AV)}	1.0			A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load		I _{FSM}	30.0			A
Maximum Instantaneous Forward Voltage at 1A		V _F	0.45	0.55	0.60	V
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage	T _A = 25°C	I _R	0.2			mA
	T _A =100°C		20			
Typical Thermal Resistance		R _{θJA}	65.0			°C/W
Operating Junction Temperature Range		T _j	-55 to +125			°C
Storage Temperature Range		T _{stg}	-55 to +150			°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.



TYPICAL PERFORMANCE CHARACTERISTICS

Fig 1. Derating Curve Output Rectified Current

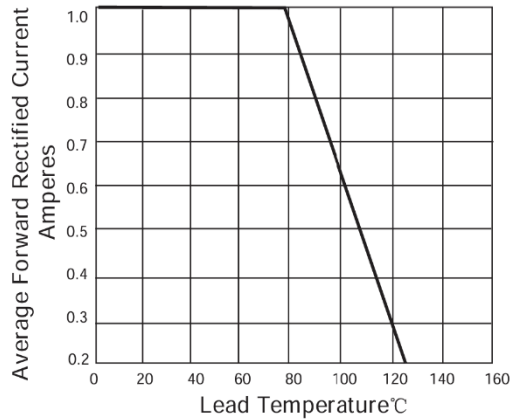


Fig 2. Maximum Non-Repetitive Peak Forward Surge Current Perleg

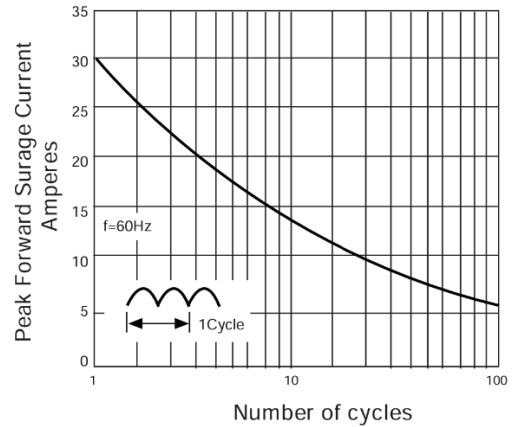


Fig 3. Typical Forward Voltage Characteristics

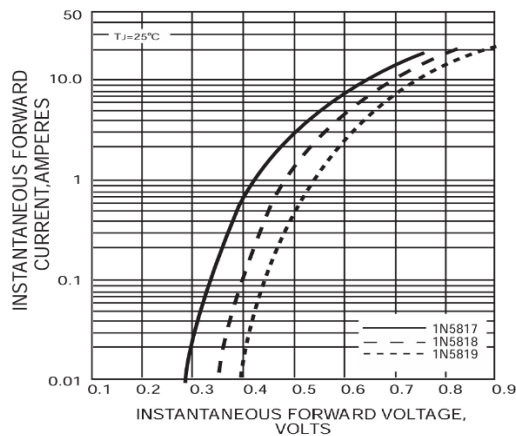
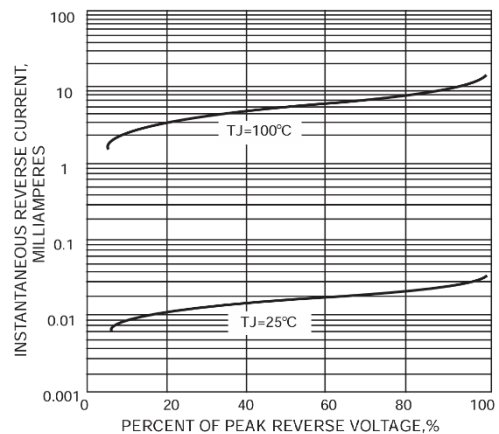


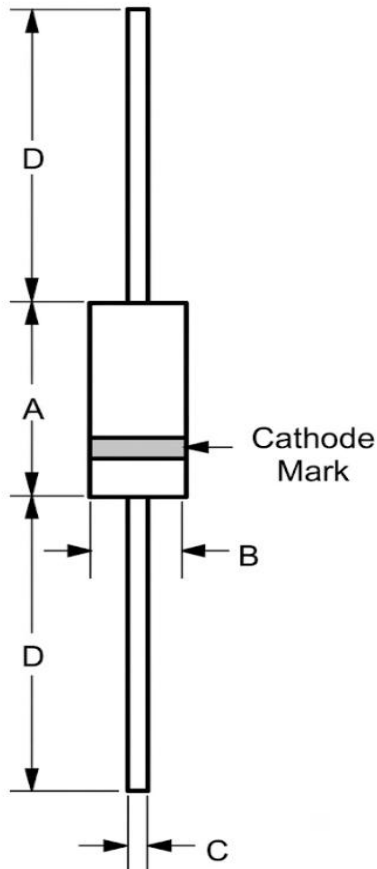
Fig 4. Typical Reverse Leakage Characteristics





PACKAGE INFORMATION

Dimension in DO-41 Package (Unit: mm)



SYMBOL	MILLIMETERS	
	MIN	MAX
A	4.100	5.200
B	2.000	2.700
C	0.700	0.900
D	25.400	-



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