

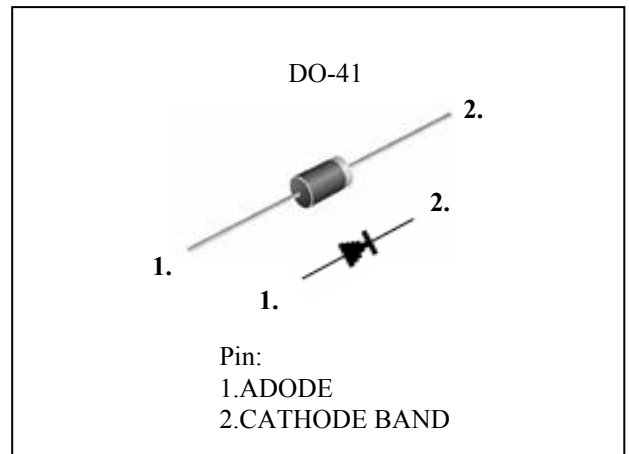
1.0 AMP. Schottky Barrier Rectifier

**FEATURES**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

**MECHANICAL DATA**

- **Case:**DO-41 Molded plastic
- **Epoxy:**UL94V-0 rate flame retardant
- **Lead:**Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- **Polarity:**Color band denotes cathode end
- **High temperature soldering guaranteed:** 250°C/10 seconds/0.375",(9.5mm)lead lengths at 5 lbs.,(2.3Kg) tension
- **Weight:**0.33grams



**ORDERING INFORMATION**

Device	Operating Temperature	Package
1N581xCE	-20°C TO +85°C	DO-41

Note: x is the index if Voltage Range

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA = 25 °C)**

Parameter	Symbol	1N5817	1N5818	1N5819	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	V
Working Peak reverse Voltage	V <sub>RWM</sub>	20	30	40	V
DC Blocking Voltage	V <sub>DC</sub>	20	30	40	V
RMS Reverse Voltage	V <sub>r(rms)</sub>	14	21	28	V
Maximum Average Forward Rectified Current (Ta=55°C)	I <sub>fav</sub>	1.0	1.0	1.0	A
Non Repetitive Peak Surge Current (1/2 Wave. 60Hz.T <sub>L</sub> =70°C)	I <sub>fsm</sub>	25	25	25	A
Maximum Instantaneous Reverse Current(T <sub>I</sub> =25°C)	I <sub>r</sub>	1.0	1.0	1.0	mA
Maximum Instantaneous Reverse Current(T <sub>I</sub> =100°C)	I <sub>r</sub>	10.0	10.0	10.0	mA
Operating & Storage Temperature Range	T <sub>j</sub> ,T <sub>strg</sub>	-65 to 125 °C			°C
Forward Voltage(I <sub>f</sub> =1.0A)	V <sub>f</sub>	0.450	0.550	0.600	V
Typical Junction Capacitance (note 2)	C <sub>j</sub>	110	70	70	pF

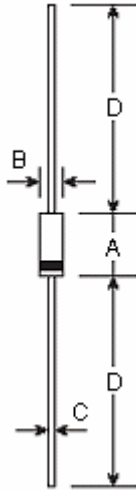
Notes: 1.Pulse Test-Pulse width=300 μ S, Duty Cycle 2%.

2.Measured at 1MHz and applied Voltage of 4.0 Volts.

3.Thermal Resistance Junction to Lead Vertical PCB Mounting 0.375"(9.5mm)lead lengths.

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DO-41 Unit: mm



DO-41 DIMENSION				
DIM	mm		INCHES	
	MIN	MAX	MIN	MAX
A	4.200	5.200	0.165	0.205
B	2.000	2.700	0.079	0.106
C	0.710	0.86	0.028	0.034
D	25.40	-	1.000	-