

Use Advantages

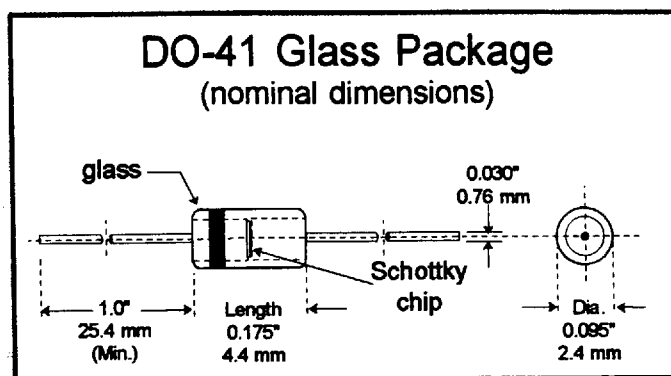
Low forward voltage drop.

Fast switching due to majority carrier conduction which results in high operating efficiencies because of low power loss.

Used in low voltage power supplies, high frequency inverters and converters, surge protection and steering diode applications

Features

- Humidity proof glass
- Thermally matched system
- High surge capability
- No applications restrictions
- Sigma Bond™ plated contacts
- 100% guaranteed solderability
- Six Sigma quality
- Available in SMD LL-41 MELF glass package



Absolute Maximum Ratings	Symbol	Value	Unit
Average Rectified Current at $T_L = 90^\circ\text{C}$, $L = 3/8"$ from body	I_{AV}	1.0	Amps
Forward Surge Current, one 1/2 cycle @ 60 HRz & $T_L = 70^\circ\text{C}$	I_{FSM}	25	Amps
Junction Temperature	T_J	-65 to +125	$^\circ\text{C}$
Storage Temperature Range	T_S	-65 to +150	$^\circ\text{C}$
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	80	$^\circ\text{C/W}$

Electrical Characteristics @ 25°C

Type	Peak Inverse Voltage (MIN.) (PIV) Volts	Maximum Average Rectified Current (I_O) Amp	Maximum Forward Voltage Drop			Maximum Reverse Leakage Current @ PIV	
			(V_F) @ 100mA Volts	(V_F) @ 1.0A Volts	(V_F) @ 3.0A Volts	(I_R) @ 25°C mA	(I_R) @ 100°C mA
1N5817	20	1.0	0.32	0.45	0.750	1.0	10
1N5818	30	1.0	0.33	0.55	0.875	1.0	10
1N5819	40	1.0	0.34	0.60	0.900	1.0	10

For MELF LL-41 (DO-213AB) surface mount package, replace "1N" prefix with "LL"



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