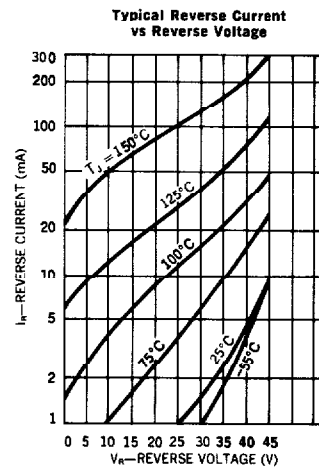
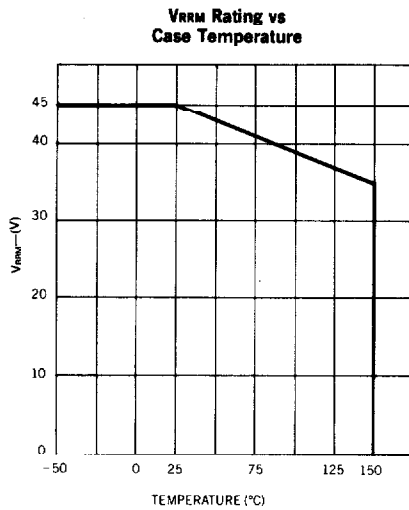
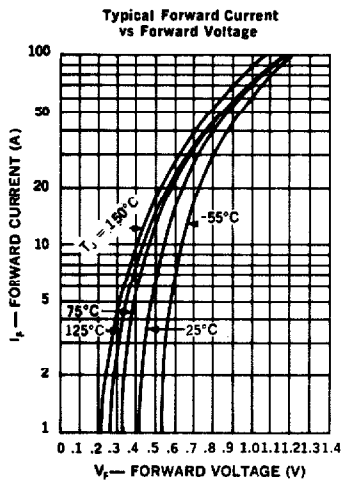


Characteristic	Symbol	Limit	Units	Conditions
Maximum Instantaneous Reverse Current	i_R	25 100	mA mA	$T_c = 25^\circ\text{C}, V_R = 35\text{V}$ $T_c = 125^\circ\text{C}$ Pulse Width = 400 μs Duty Cycle = 1 percent
Maximum Instantaneous Forward Voltage	V_F	.47	V	$i_F = 10\text{A}$ Pulse Width = 300 μs Duty Cycle = 1 percent $T_c = 125^\circ\text{C}$
		.60	V	$i_F = 20\text{A}$ Pulse Width = 300 μs Duty Cycle = 1 percent $T_c = 125^\circ\text{C}$
Maximum Capacitance	C_i	2000	pF	$V_R = 5.0\text{V}$
Maximum Voltage Rate of Change	dv/dt	1000	v/ μs	$v_R = 35\text{V}$



OPTIONAL HIGH RELIABILITY (HR2) SCREENING

The following tests are performed on 100% of the devices specified SD241HR2.

SCREEN	MIL-STD-750 METHOD	CONDITIONS
1. High Temperature	1032	24 Hours @ $T_A = 150^\circ\text{C}$
2. Temperature Cycle	1051	F, 20 Cycles, -55 to +150°C. No dwell required @ 25°C, $t \geq 10$ min. @ extremes
3. Hermetic Seal a. Fine Leak b. Gross Leak	1071	H, Helium C, Liquid
4. Thermal Impedance		Sage Test
5. Interim Electrical Parameters	GO/NO GO	V_F and I_R @ 25°C
6. High Temperature Reverse Blocking	Similar to Method 1040	1/2 Sine Reverse. $t = 48$ Hours. $T_c = 125^\circ\text{C}$. $VR_{RM} = \text{rating}$, $F = 50-60$ Hz, $I_O = OA$
7. Final Electrical Parameters	GO/NO GO	$V_F + I_R$ @ 25°C PDA = 10% (Final Electricals)