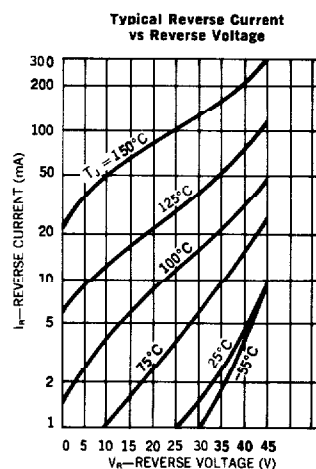
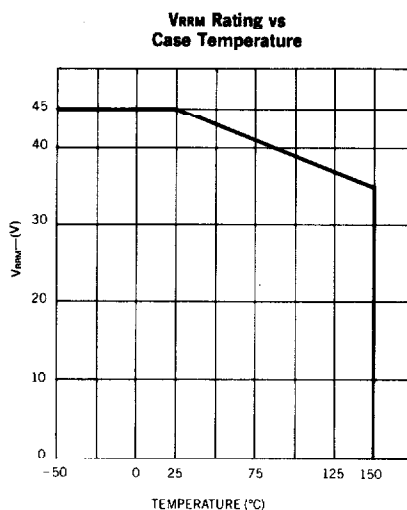
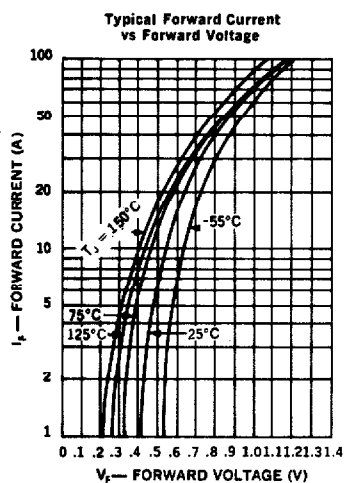


Characteristic	Symbol	Limit	Units	Conditions
Maximum Instantaneous Reverse Current	i_R	25 100	mA mA	$T_C = 25^{\circ}\text{C}$, $V_R = 35\text{V}$ $T_C = 125^{\circ}\text{C}$ Pulse Width = $400\mu\text{s}$ Duty Cycle = 1 percent
Maximum Instantaneous Forward Voltage	V_F	.47	V	$i_F = 10\text{A}$ Pulse Width = $300\mu\text{s}$ Duty Cycle = 1 percent $T_C = 125^{\circ}\text{C}$
		.60	V	$i_F = 20\text{A}$ Pulse Width = $300\mu\text{s}$ 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	$\text{V}/\mu\text{s}$	$V_R = 35\text{V}$



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 $+150^{\circ}\text{C}$. 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	$\frac{1}{2}$ Sine Reverse. $t = 48$ Hours. $T_C = 125^{\circ}\text{C}$. $VRW_M = \text{rating}$. $F = 50-60$ Hz, $I_O = OA$
7. Final Electrical Parameters	GO/NO GO	$V_F + I_R$ @ 25°C PDA = 10% (Final Electricals)