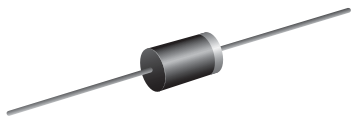
R2500F - R3000F

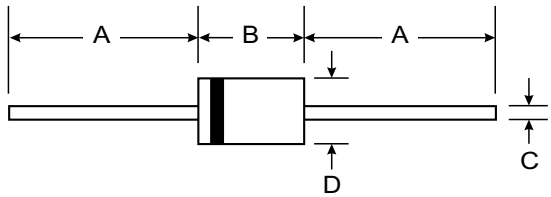
HIGH VOLTAGE RECTIFIER DIODES

VOLTAGE RANGE: 2500 - 3000V
CURRENT: 0.2 A



Features

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with alcohol,Isopropanol
- and similar solvents



Mechanical Data

- Case: DO-41,Molded Plastic
- Terminals: Plated Leads Solderable per
- MIL-STD-202, Method 208
- Polarity: Cathode Band
- Approx. Weight: 0.35 grams
- Mounting Position: Any
- Marking: Type Number

DO-41 Plastic		
Dim	**Min**	**Max**
A	25.40	—
B	4.06	5.21
C	0.71	0.884
D	2.00	2.72
All Dimensions in mm		

RoHS COMPLIANT

Maximum Ratings and Electrical Characteristics

@ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	R2500F	R3000F	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	2500	3000	V
Maximum RMS voltage	V_{RMS}	1750	2100	V
Maximum DC blocking voltage	V_{DC}	2500	3000	V
Maximum average forw ard rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	0.2		A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @T_J=125℃	I_{FSM}	30.0		A
Maximum instantaneous forw ard voltage @ 0.2A	V_F	4.0	5.0	V
Maximum reverse current @T_A=25℃	I_R	5.0		μ A
at rated DC blocking voltage @T_A=100℃		100.0		
Maximum reverse recovery time (Note1)	t_{rr}	500		ns
Typical junction capacitance (Note2)	C_J	15		pF
Operating junction temperature range	T_J	- 55 ---- + 150		℃
Storage temperature range	T_{STG}	- 55 ---- + 150		℃

NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.
2. Measured at 1.0MH_Z and applied reverse voltage of 4.0V DC.

FIG.1 -- FORWARD DERATING CURVE

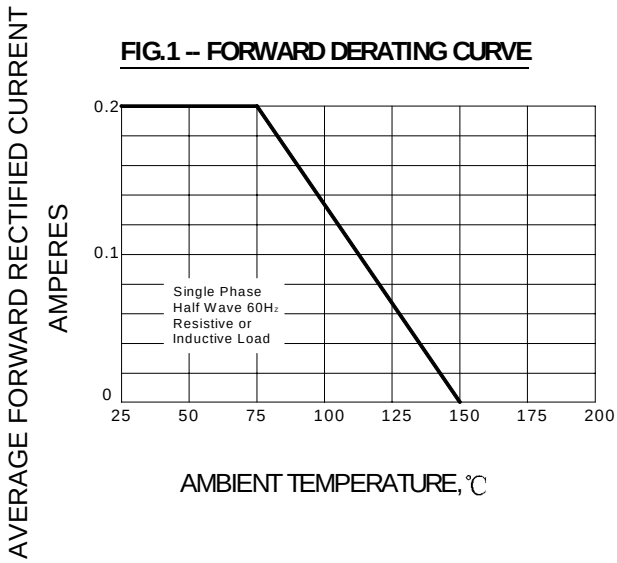


FIG.2 -- PEAK FORWARD SURGE CURRENT

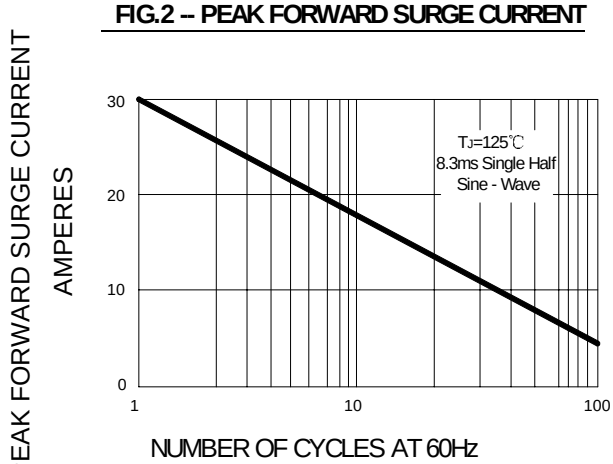
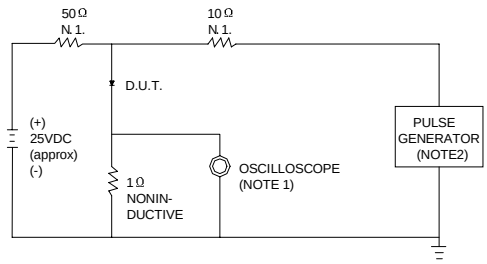
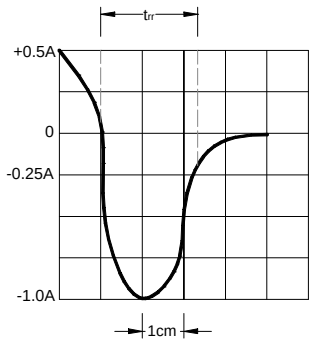


FIG.3 -- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES:1.RISE TIME = 7ns MAX.INPUT IMPEDANCE =1MΩ. 22pF.
2.RISE TIME =10ns MAX.SOURCE IMPEDANCE=50 Ω.



SET TIME BASE FOR 50/100 ns/cm