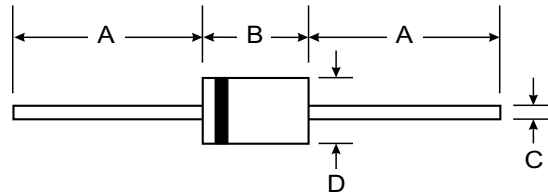


Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Superfast recovery time



Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.339 gram

DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

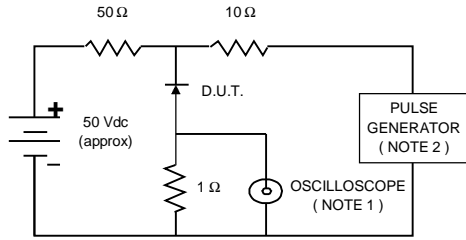
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

RATING	SYMBOL	11DF1	11DF2	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	V
Maximum RMS Voltage	V _{RMS}	70	140	V
Maximum DC Blocking Voltage	V _{DC}	100	200	V
Maximum Average Forward Current T _a = 63 °C	I _{F(AV)}	1.0		A
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	30		A
Maximum Peak Forward Voltage at I _F = 1.0 A	V _F	0.98		V
Maximum DC Reverse Current at V _{RRM}	I _R	10		μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35		ns
Junction Temperature Range	T _J	- 65 to + 150		°C
Storage Temperature Range	T _{STG}	- 65 to + 150		°C

Note : (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES : 1. Rise Time = 7 ns max., Input Impedance = 1 megaohm, 22 pF.
 2. Rise time = 10 ns max., Source Impedance = 50 ohms.
 3. All Resistors = Non-inductive Types.

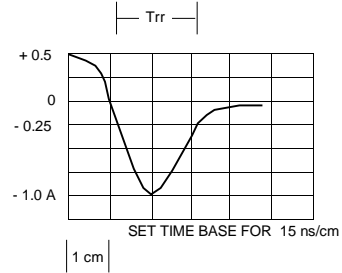


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

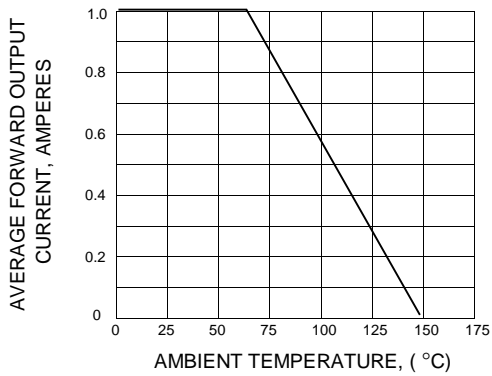


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

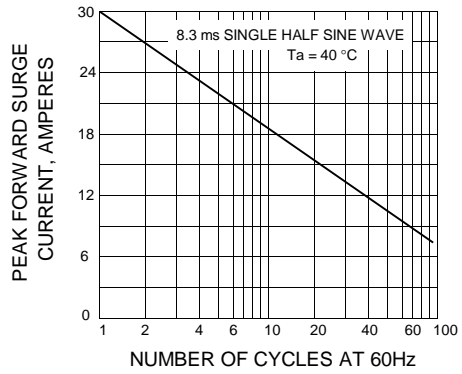


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

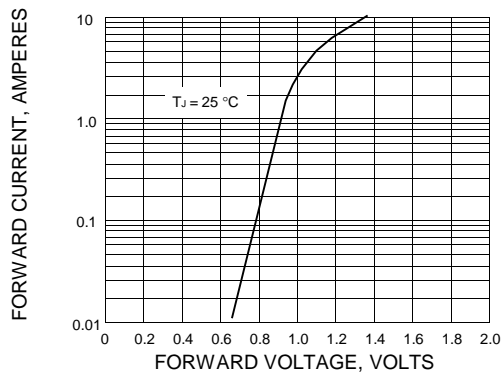


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

