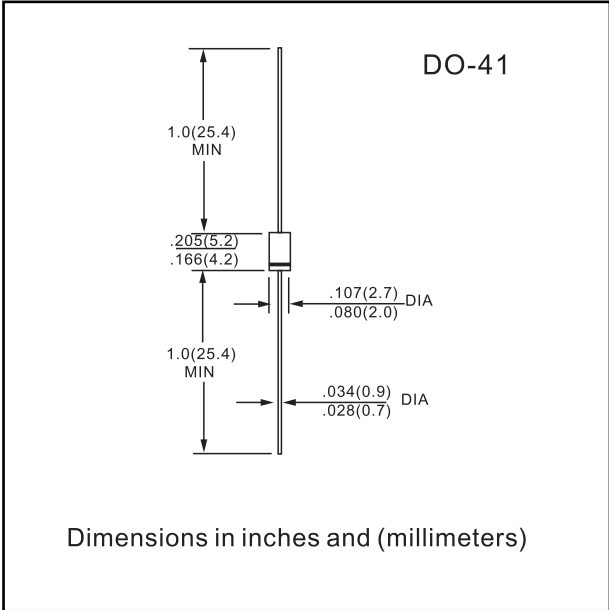




- FEATURES**
- \* High current capability
  - \* High surge current capability
  - \* High reliability
  - \* Low reverse current
  - \* Low forward voltage drop
  - \* Superfast recovery time



**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

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

RATING	SYMBOL	11DF1	11DF2	11DF4	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	400	V
Maximum RMS Voltage	VRMS	70	140	440	V
Maximum DC Blocking Voltage	VDC	100	200	400	V
Maximum Average Forward Current Ta = 63 °C	IF(AV)	1.0			A
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	30			A
Maximum Peak Forward Voltage at IF = 1.0 A	VF	0.98			V
Maximum DC Reverse Current at VRRM	IR	10			µA
Maximum Reverse Recovery Time ( Note 1 )	Trr	35			ns
Junction Temperature Range	TJ	- 40 to + 150			°C
Storage Temperature Range	TSTG	- 40 to + 150			°C

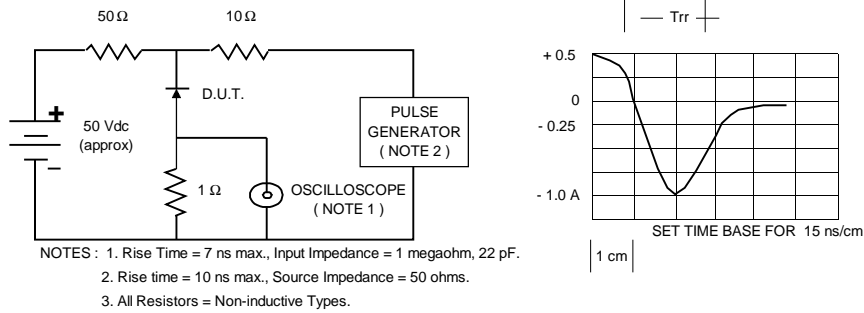
**Note :**

( 1 ) Reverse Recovery Test Conditions : IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.

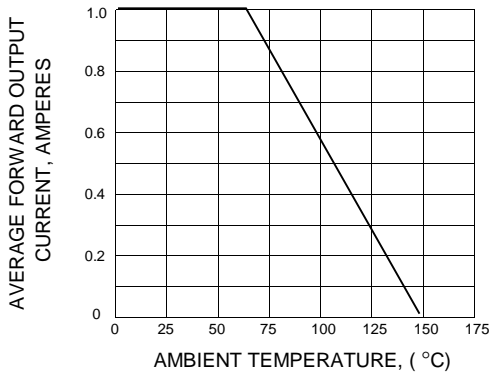


**RATINGS AND CHARACTERISTIC CURVES 11DF1 THRU 11DF4**

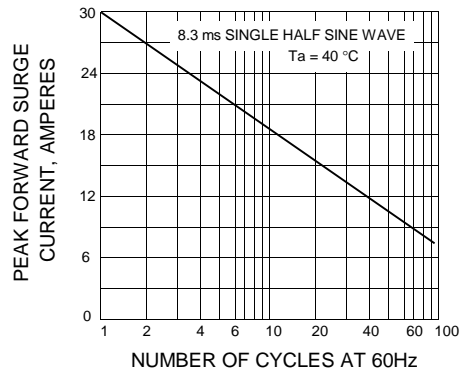
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**

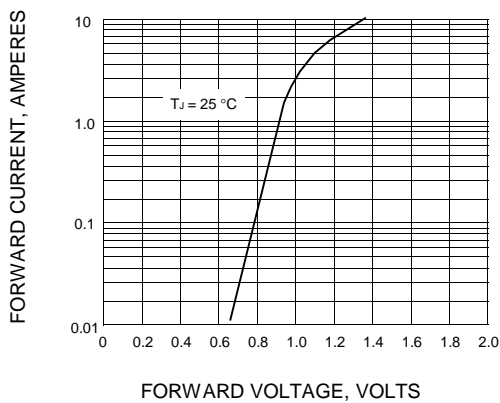


**FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



CS

**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

