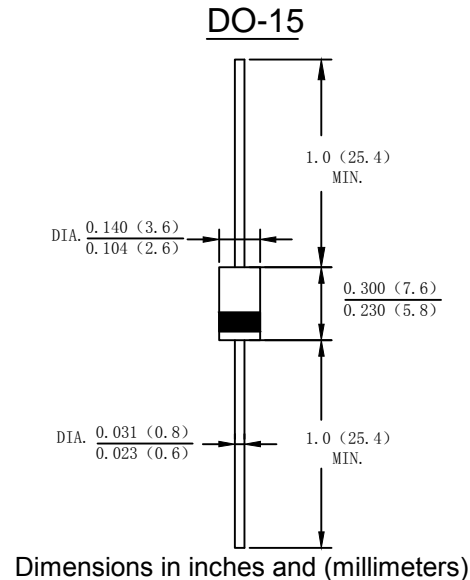


### Features

- Low Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

### Mechanical Data

- Case: Moeded plastic DO-15
- Terminals: Axial leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any



### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	FR151	FR152	FR153	FR154	FR155	FR156	FR157	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Average Rectified Output Current (Note 1) @ $T_A = 75^\circ C$	$I_o$	1.5							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50							A
Forward Voltage @ $I_F = 1.5A$	$V_{FM}$	1.3							V
Peak Reverse Current @ $T_A = 25^\circ C$	$I_R$	5.0							uA
At Rated DC Blocking Voltage @ $T_A = 100^\circ C$		100							
Maximum Reverse Recovery Time (Note2)	$T_{RR}$	150			250	500			nS
Typical Junction Capacitance (Note 3)	$C_j$	30			20				pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	65							K/W
Operating Temperature Range	$T_j$	-65 to + 125							°C
Storage Temperature Range	$T_{STG}$	-65 to + 150							°C

Note: 1. Thermal resistance junction to ambient.

2.Reverse Recovery Test Conditions:  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $IRR = 0.25A$ .

3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

FIG. 1 – FORWARD CURRENT DERATING CURVE

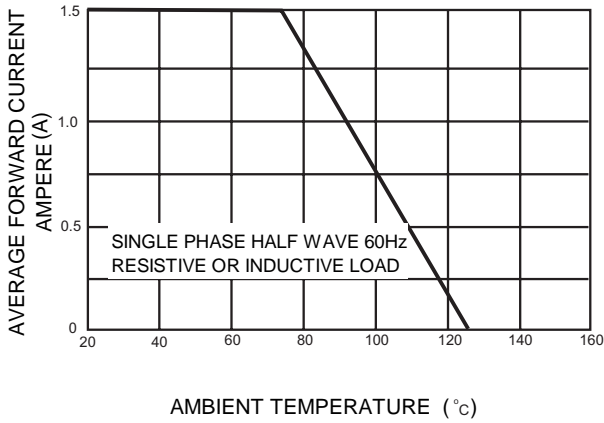


FIG.2-TYPICAL FORWARD CHARACTERISTICS

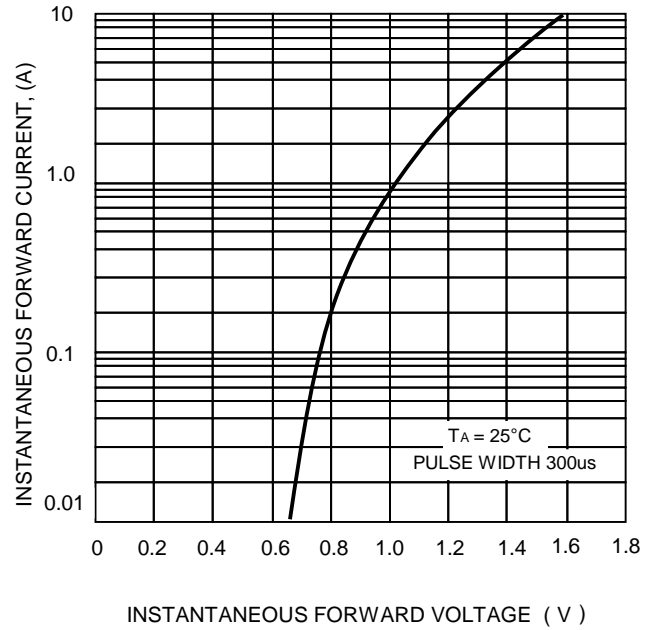


FIG.3- MAXIMUM NON-REPETITIVESURGE CURRENT

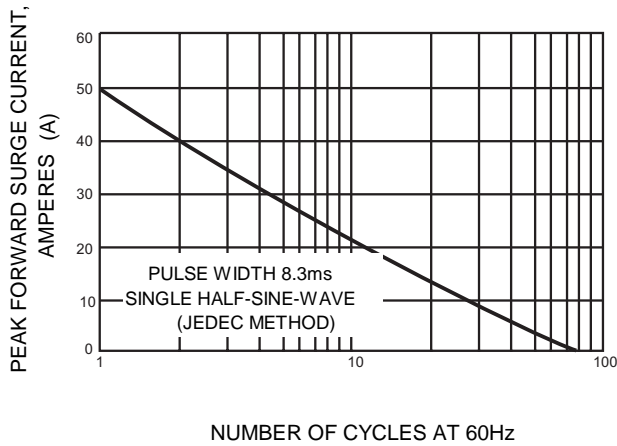


FIG.4 – TYPICAL JUNCTION CAPACITANCE

