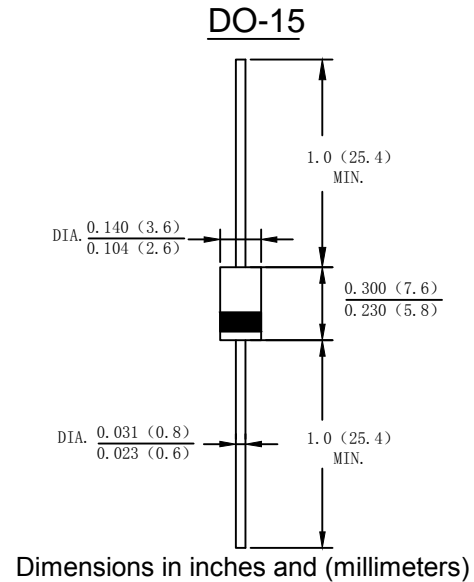


Features

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

Mechanical Data

- Case: Molded 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) @ $T_L=100^\circ C$	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	10.375							A^2s
Forward Voltage @ $I_F=1.5A$	V_{FM}	1.3							V
Peak Reverse Current @ $T_A=25^\circ C$	I_R	5.0							μA
At Rated DC Blocking Voltage @ $T_A=125^\circ C$		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							$^\circ C/W$
Operating Temperature Range	T_j	-65 to + 125							$^\circ C$
Storage Temperature Range	T_{STG}	-65 to + 150							$^\circ C$

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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

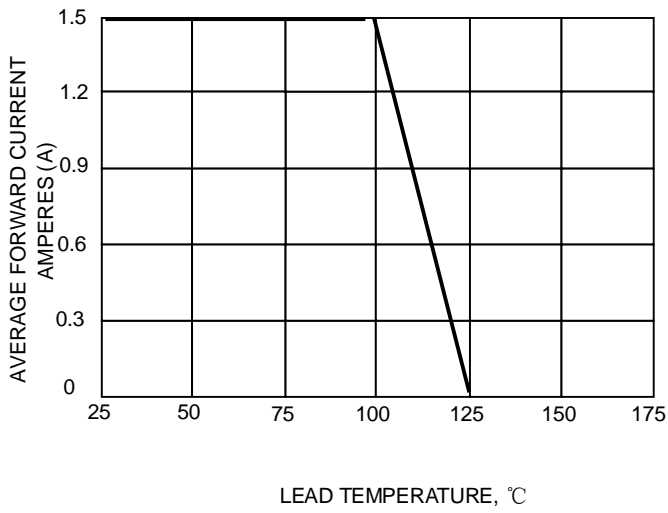


FIG.2-TYPICAL FORWARD CHARACTERISTICS

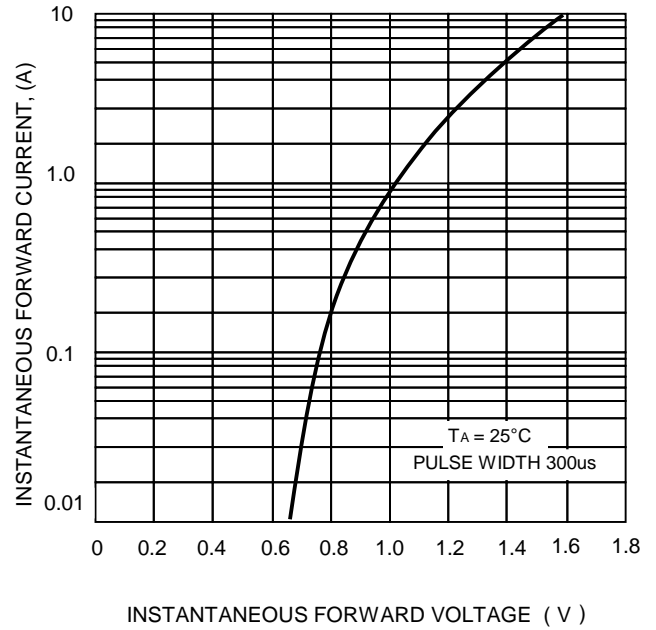


FIG.3- MAXIMUM NON-REPETITIVESURGE CURRENT

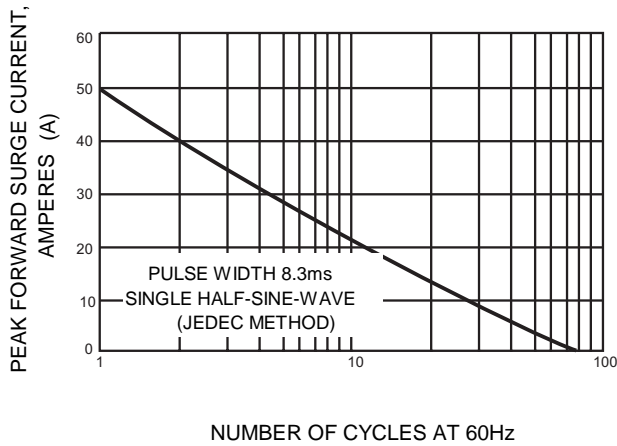
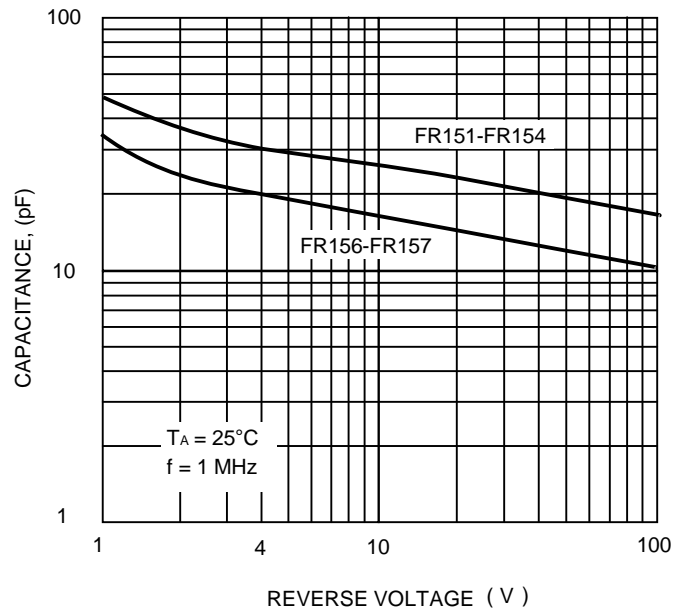


FIG.4 – TYPICAL JUNCTION CAPACITANCE



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