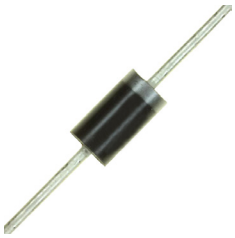
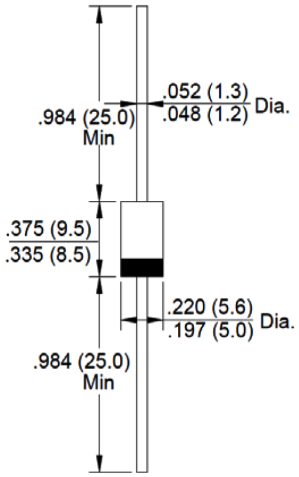
Super Fast Recovery Rectifier Diodes
V_{RRM} - 100 Volts to 600 Volts, 3A

multicomp PRO



RoHS Compliant

DO-201AA (DO-27)



Dimensions : Inches (Millimetres)

Features

- Glass Passivated (GPP)
- Fast switching for high efficiency
- Low cost
- Low reverse leakage current
- High current capability
- Low forward voltage drop
- Lead free
- Meet UL flammability classification 94V-0
- Case style: DO-201AA (DO-27) molded plastic

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%.

Characteristics	Symbol	SF32G	SF36G	SF38G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	400	600	V
Maximum RMS Voltage	V_{RMS}	70	280	420	
Maximum DC Blocking Voltage	V_{DC}	100	400	600	
Maximum Average Forward Rectified Current @ T_A = 55°C	$I_{(AV)}$	3			A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	125			A
Peak Forward Voltage at 3A DC (Note1)	V_F	0.95	1.3	1.7	V
Max. DC Reverse Current @ T_J=25°C Rated DC Blocking Voltage @ T_J=100°C	I_R	5 100			μA
Maximum Reverse Recovery Time (Note 2)	T_{RR}	35			nS
Typical Junction Capacitance (Note 3)	C_J	70	45		pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	20			°C/W
Operating Junction Temperature Range	T_J	-65 to +150			°C
Storage Temperature Range	T_{STG}				

Notes:

1. 300μS pulse width, 2%duty cycle
2. Reverse with I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A
3. Measured at 1MHz and applied reverse voltage of 4V DC
4. The typical data above is for reference only

Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

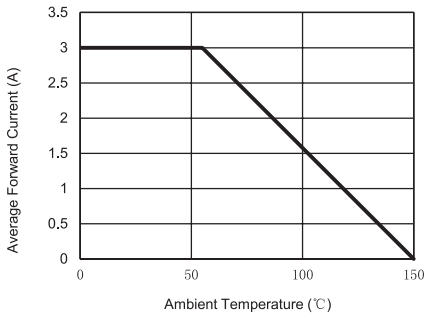


Fig. 2 - Maximum Non-Repetitive Surge Current

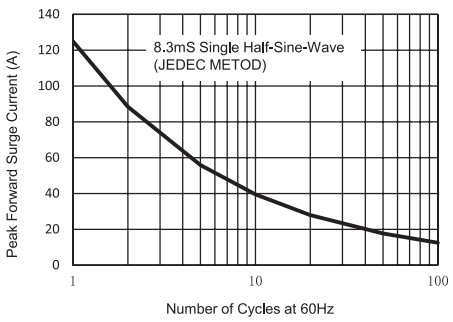


Fig. 3 - Typical Junction Capacitance

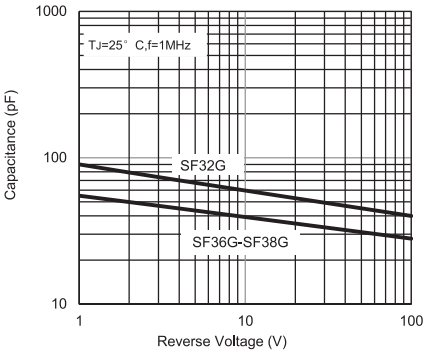


Fig. 4 - Typical Forward Characteristics

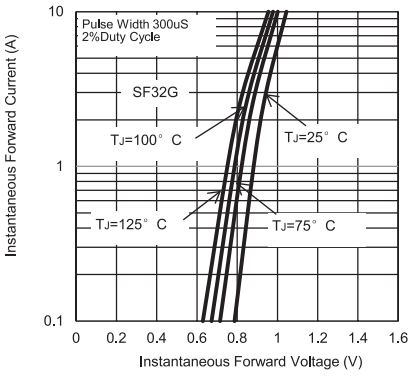


Fig. 5 - Typical Forward Characteristics

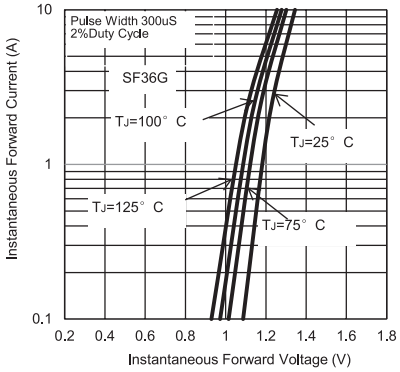
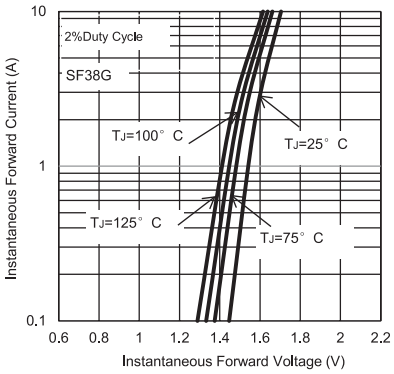


Fig. 6 - Typical Forward Characteristics



Part Number Table

Description	Part Number
Rectifier Diode, Super Fast, 100V, 3A, DO-201AA (DO-27)	SF32G
Rectifier Diode, Super Fast, 400V, 3A, DO-201AA (DO-27)	SF36G
Rectifier Diode, Super Fast, 600V, 3A, DO-201AA (DO-27)	SF38G

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