

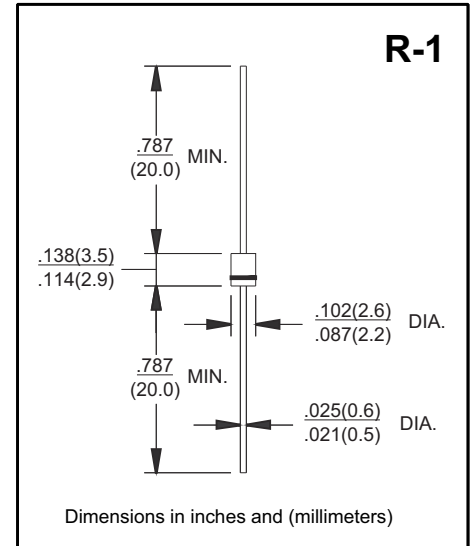
FAST RECOVERY RECTIFIER

FEATURES

- Low cost construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.007ounce, 0.20 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25 °C ambient temperature unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load for capacitive load derate current by 20%

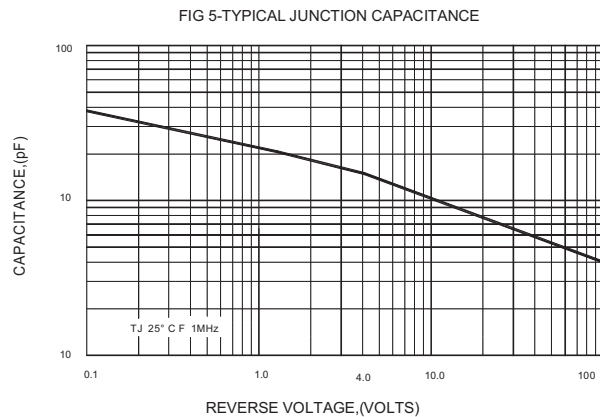
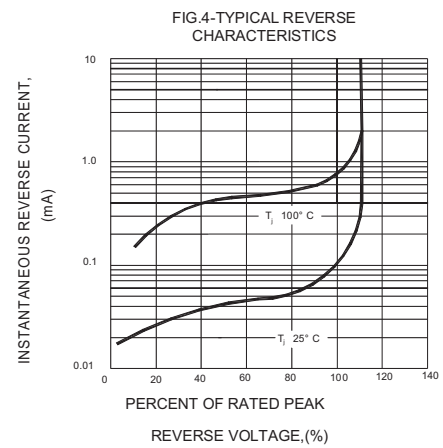
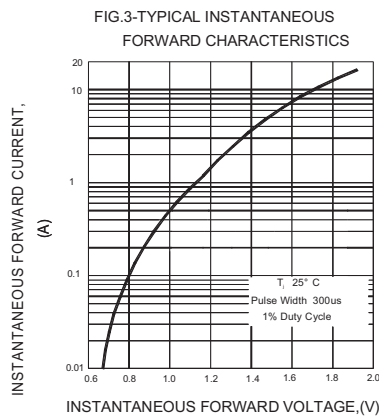
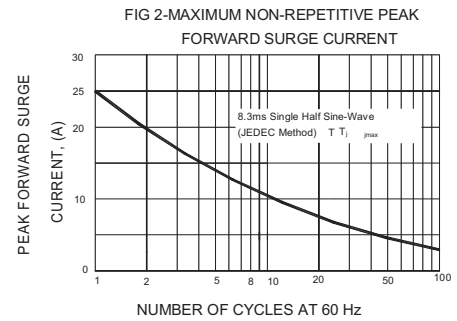
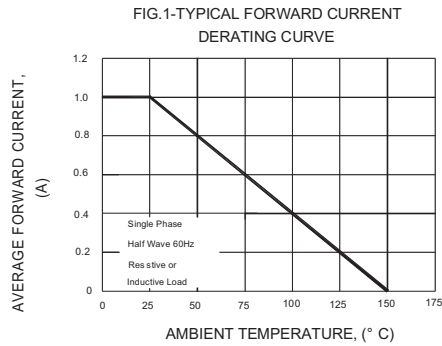
PARAMETER		SYMBOLS	1F1	1F2	1F3	1F4	1F5	1F6	1F7	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375”(9.5mm) lead length at T _A = 25 °C		I _(AV)	1.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	25							Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V _F	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25 °C	I _R	5.0							μAmps
	T _A = 100 °C		50							
Maximum Reverse Recovery Time (Note 3) T _J =25 °C		T _{rr}	150				250	500		ns
Typical Junction Capacitance (Note 1)		C _J	15							pF
Typical Thermal Resistance (Note 2)		R _{θJA}	50							°C/W
Operating and Storage Temperature Range		T _J T _{STG}	-55 to +150							°C

Notes:

- 1.Measured at 1.0MHz and Applied Reverse Voltage of 4.0Volits.
- 2.Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.
- 3.Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$

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RATING AND CHARACTERISTIC CURVES 1F1 - 1F7



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.