SF51 THRU SF56

SUPER FAST RECOVERY RECTIFIER

VOLTAGE：50-600V **CURRENT：5.0A**

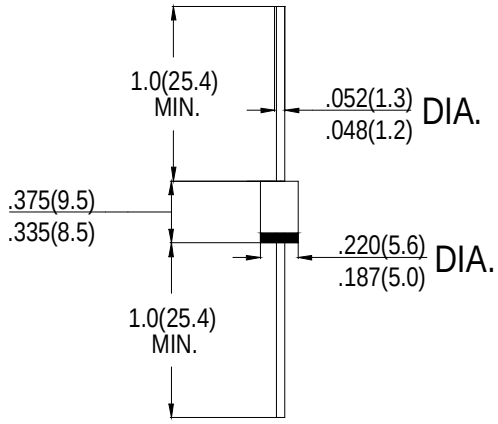
FEATURES

- High reliability
- Low leakage
- Low forward voltage
- High current capability
- Super fast switching speed
- High surge capability
- Good for switching mode circuit

MECHANICAL DATA

- ***Case***: Molded plastic
- ***Epoxy***: UL94V-0 rate flame retardant
- ***Lead***: MIL-STD- 202E, Method 208 guaranteed
- ***Polarity***:Color band denotes cathode end
- ***Mounting position***: Any
- ***Weight***: 1.18 grams

DO-27



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

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

	SYMBOL	SF51	SF52	SF53	SF54	SF55	SF56	SF57	SF58	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	500	600	V
Maximum Average Forward rectified Current at T_A=55°C	I_o	5.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load	I_{FSM}	150								A
Maximum Instantaneous forward Voltage at 5.0A DC	V_F	0.95				1.4		1.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A=25°C	I_R	10.0								μA
Maximum Full Load Reverse Current Full Cycle		100								
Maximum Reverse Recovery	t_{rr}	35								nS
Typical Junction	C_J	120				60				pF

Notes: 1.Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0 volts

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