

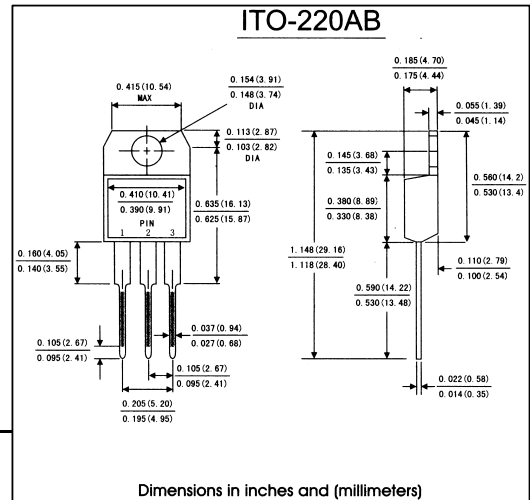
FEATURES

- . Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- . Metal silicon junction ,majority carrier conduction
- . Guard ring for overvoltage protection
- . Low power loss,high efficiency
- . High current capability ,Low forward voltage drop
- . High surge capability
- . For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- . Dual rectifier construction
- . High temperature soldering guaranteed: 250°C/10 seconds

0.25"(6.35mm)from case

MECHANICAL DATA

- . **Case:** JEDEC DO-220AB molded plastic body
- . **Terminals:** lead solderable per MIL-STD-750,method 2026
- . **Polarity:** As marked. No suffix indicates Common Cathode, suffix "A" indicates Common Anode
- . **Mounting Position:** Any
- . **Weight:** 0.08 ounce, 2.24 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase, half wave, resistive or inductive) load. For capacitive load, derate by 20%)

	Symbols	SR1535	SR1545	SR1550	SR1560	Units
Maximum repetitive peak reverse voltage	V _{RRM}	35	45	50	60	Volts
Maximum RMS voltage	V _{RMS}	25	32	35	42	Volts
Maximum DC blocking voltage	V _{DC}	35	45	50	60	Volts
Macimum average forward rectified current(see Fig.1)	I _(AV)	7.5 15.0				Amps
Repetitive peak forward current(square wavr, 20KHz) at T _c =105°C	I _{FRM}	15.0				Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150.0				Amps
Maximum instantaneous forward voltage at 10 A(Note 1)	V _F	0.65		0.75		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25°C	1.0				mA
	TA=125°C	15		50		
Typeical thermal resistance(Note 2)	R θ _{JC}	2.5				°C/W
Operating junction temperature range	T _J	-65 to +150				°C
storage temperature range	T _{STG}	-65 to +175				°C

- Notes:** 1. Pulse test: 300 μ s pulse width,1% duty cycle
2. Thermal resistance from juntion to case

RATINGS AND CHARACTERISTIC CURVES SRF1535 THRU SRF1560

FLG.1-FORWARD CURRENT DERATING CURVE

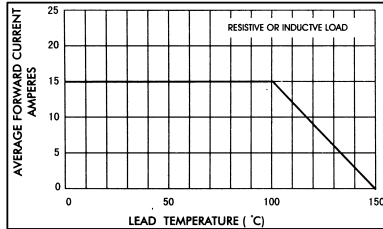


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

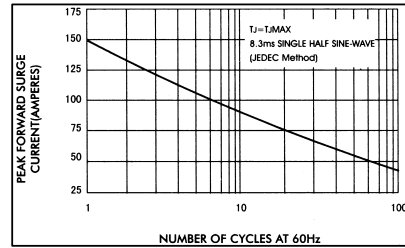


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

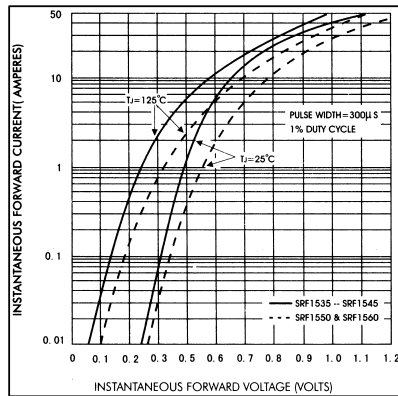


FIG.4-TYPICAL REVERSE CHARACTERISTICS

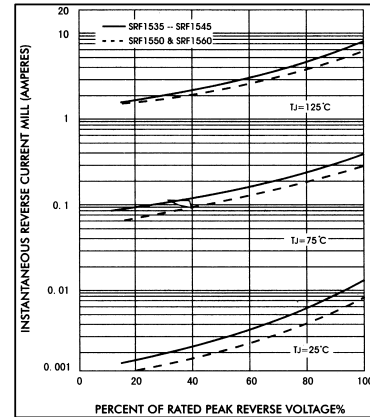


FIG.5-TYPICAL JUNCTION CAPACITANCE

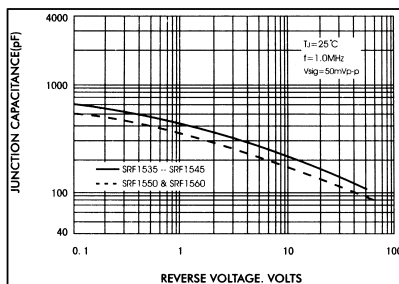


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

