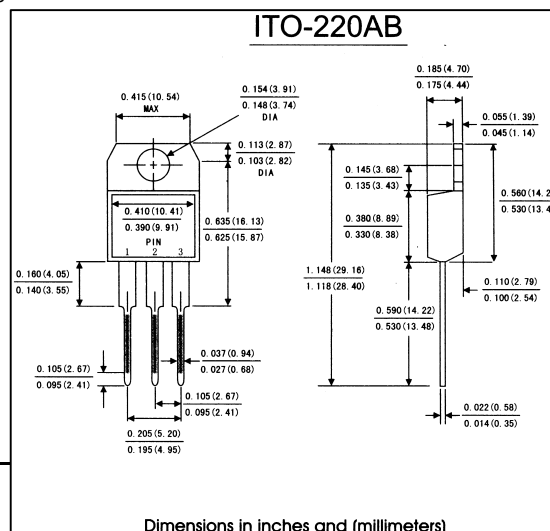


FEATURES

- 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 Tc=105℃	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℃	I _R	1.0			mA
	TA=125℃		15		50	
Typeical thermal resistance(Note 2)		R θ _{JC}	2.5			℃/W
Operating junction temperature range		T _J	-65 to +150			℃
storage temperature range		T _{STG}	-65 to +175			℃

Notes: 1. Pulse test: 300 μs pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SRF1535 THRU SRF1560

FIG.1-FORWARD CURRENT DERATING CURVE

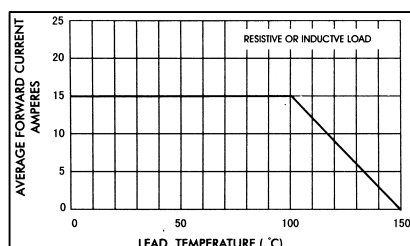


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

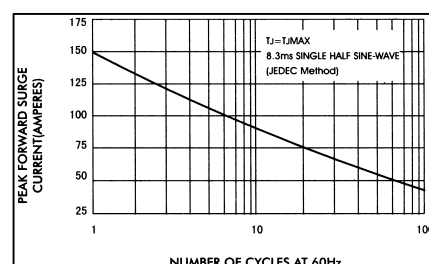


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

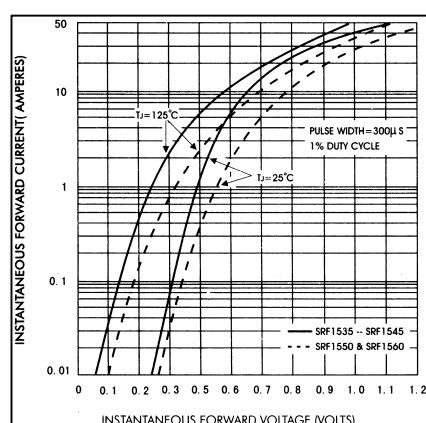


FIG.4-TYPICAL REVERSE CHARACTERISTICS

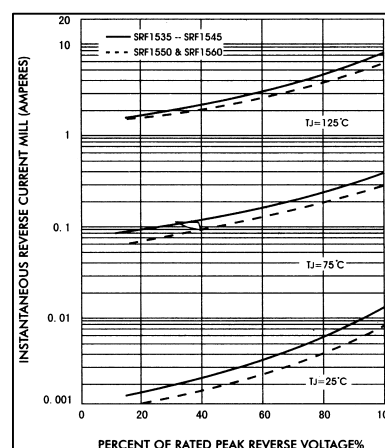


FIG.5-TYPICAL JUNCTION CAPACITANCE

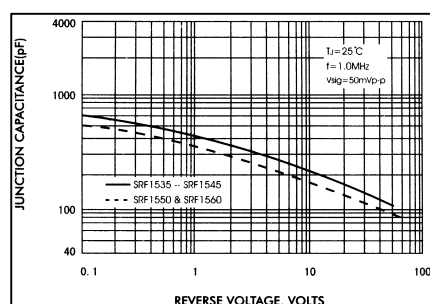


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

