

CE

CHENYI ELECTRONICS

SRF1535 THRU SRF1560**SCHOTTKY BARRIER RECTIFIER**

Reverse Voltage - 35 to 60 Volts

Forward Current - 15Amperes

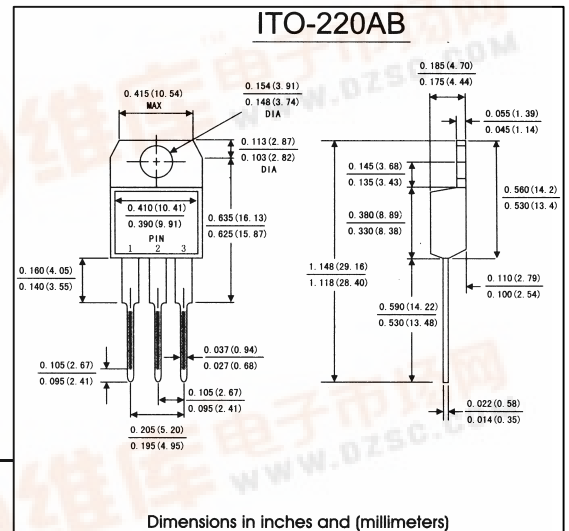
FEATURES

- 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

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RATINGS AND CHARACTERISTIC CURVES SRF1535 THRU SRF1560

FIG.1-FORWARD CURRENT DERATING CURVE

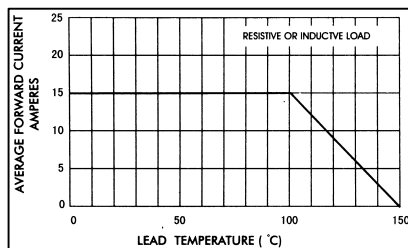


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

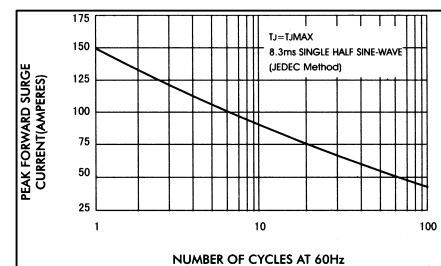


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

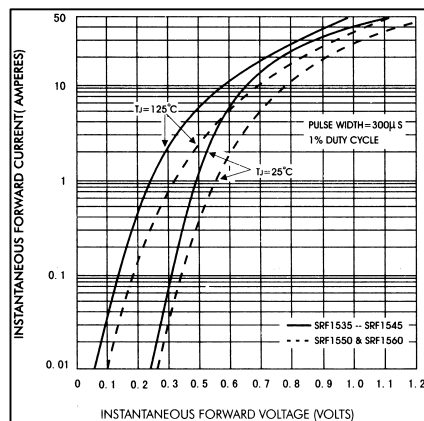


FIG.4-TYPICAL REVERSE CHARACTERISTICS

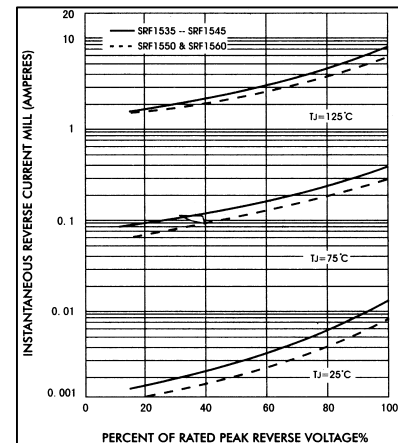


FIG.5-TYPICAL JUNCTION CAPACITANCE

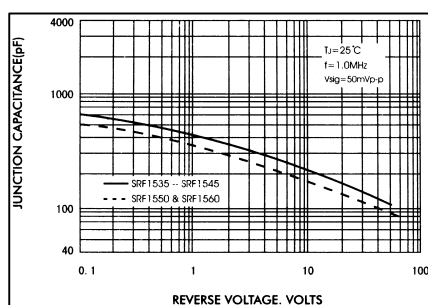


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

