



SCHOTTKY BARRIER RECTIFIER

Reverse Voltage: 170Volts Forward Current: 90.0Amperes

TO-247AB

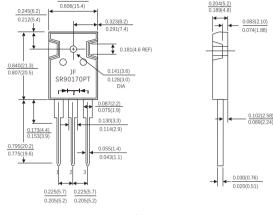
FEATURES

- 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 :260 °C /10 seconds, 0.25"(6.35mm)from case
- · Component in accordance to 2015/863/EU

MECHANICAL DATA

- · Case: TO-247AB molded plastic body
- · Terminals: Lead solderable per MIL-STD-750,method 2026
- · Polarity: As marked.
- · Mounting Position: Any

0.645(16.4)





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

Paramerters		Symbols	Value				Units
Maximum repetitive peak reverse voltage		Vrrm	170				V
Maximum RMS voltage		Vrms	120				V
Maximum DC blocking voltage		VDC	170				V
Maximum average forward Per leg rectified current(see Fig.1) Total device		lf(AV)	45.0 90.0				А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	460				А
Forward voltage at 45A per leg (Note 1)		VF	TYP.	0.85	MAX.	0.90	٧
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Tı=25℃	IR	TYP.	-	MAX.	20	uA
	T₃=125°C		TYP.	-	MAX.	20	mA
Typical thermal resistance (Note 2)		Rejc	0.23				°C/W
Operating junction temperature range		Tı	-55 to+150				°C
Storage temperature range		Тѕтс	-55 to+150				°C

Notes: 1.Pulse test: 300 us pulse width,1% duty cycle 2. Thermal resistance from junction to case



RATINGS AND CHARACTERISTIC OF SR90170PT

FIG.1-FORWARD CURRENT DERATING CURVE

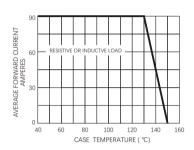


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

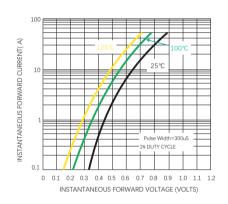


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

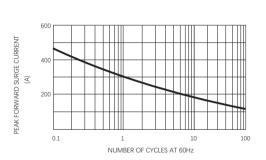
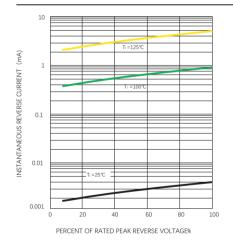


FIG.4-TYPICAL REVERSE CHARACTERISTICS





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