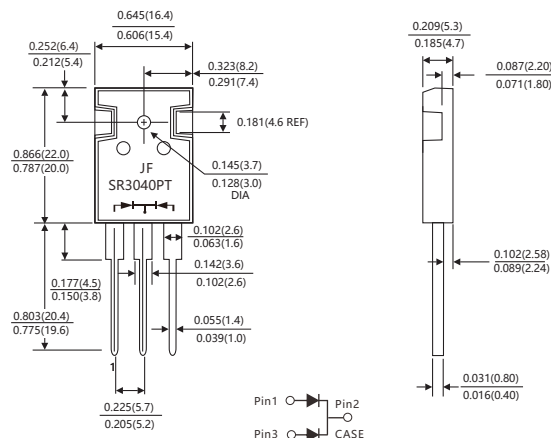


Features

- 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



TO-247AB



Dimensions in inches and (millimeters)

Mechanical Data

- Case: TO-247AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked.
- Mounting Position: Any
- Mounting Torque: 10 in-lbs maximum

Maximum Ratings And Electrical Characteristics

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

Parameters		Symbols	Value				Units
Maximum repetitive peak reverse voltage		V_{RRM}	40				V
Maximum RMS voltage		V_{RMS}	28				V
Maximum DC blocking voltage		V_{DC}	40				V
Maximum average forward rectified current(see Fig.1)	Per leg	$I_{F(AV)}$	15.0				A
	Total device		30.0				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load. (JEDEC method, Total device)		I_{FSM}	250				A
Forward voltage at 15A per leg (Note 1)		V_F	Typ.	0.51	Max.	0.55	V
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_J=25^{\circ}C$	IR	Typ.	-	Max.	100	uA
	$T_J=125^{\circ}C$		Typ.	-	Max .	50	mA
Typical thermal resistance (Note 2)		$R_{\theta JC}$	1.3				°C/W
Operating junction temperature range		T_J	- 55 to+150				°C
Storage temperature range		T_{STG}	- 55 to+150				°C

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

RATINGS AND CHARACTERISTICS OF SR3040PT

Fig.1-Forward Current Derating Curve

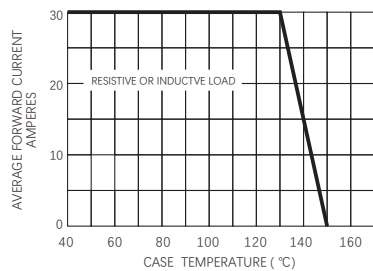


Fig.2-Maximum Non-repetitive Peak Forward Surge Current

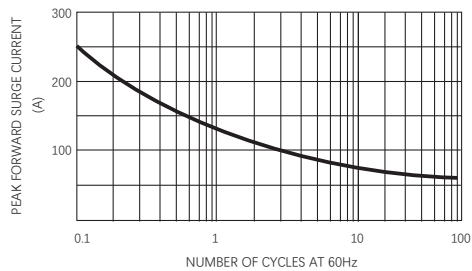


Fig.3-Typical Instantaneous Forward Characteristics

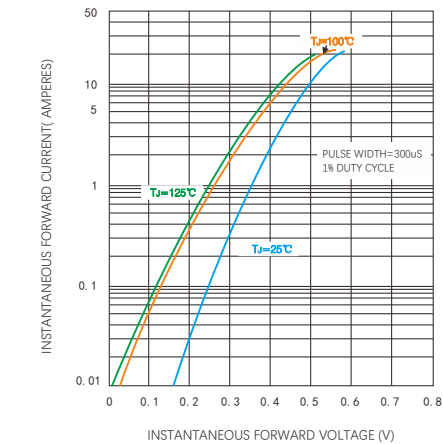
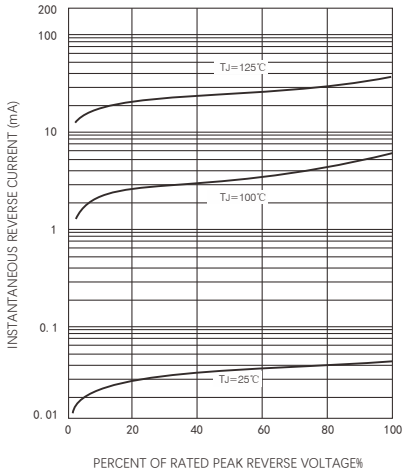


Fig.4-Typical Reverse Characteristics



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