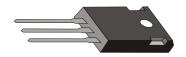
SFP304CT THRU SFP307CT



30.0 AMP SUPER FAST RECTIFIERS



FEATURES

- * Glass passivated chip junctions
- * High Speed recovery time for switching mode application
- * High Forward Surge Capability
- * Low Reverse Current
- * Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

* Leads: Solderable per mil-std-202, Method 208

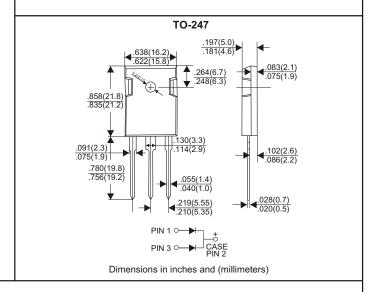
* Polarity: as marked

* Mounting torque: 5 in-lbs maximum

* Terminals: Puretin plated

VOLTAGE RANGE 200 to 600 Volts CURRENT

30.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SFP304CT	SFP306CT	SFP307CT	UNITS
Maximum Recurrent Peak Reverse Voltage	200	400	600	V
Maximum RMS Voltage	140	280	420	V
Maximum DC Blocking Voltage	200	400	600	V
Maximum Average Forward Rectified Current				
at Tc=100°C per device		30.0		Α
Peak Forward Surge Current, 8.3 ms single half sine-wave				
superimposed on rated load (JEDEC method)		400		Α
Maximum Instantaneous Forward Voltage at 15.0A	1.05	1.35	1.85	V
Maximum DC Reverse Current Ta=25°C		5	•	μА
at Rated DC Blocking Voltage T _A =125°C		250		
Maximum Reverse Recovery Time (Note 1)		35		nS
Typical Thermal Resistance RθJC (Note 2)		1.5		°C/W
Operating and Storage Temperature Range TJ, Tstg		-55—+150		°C

NOTES

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Thermal resistance from junction to case.

RATING AND CHARACTERISTIC CURVES (SFP304CT THRU SFP307CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

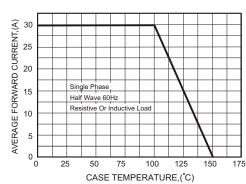


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

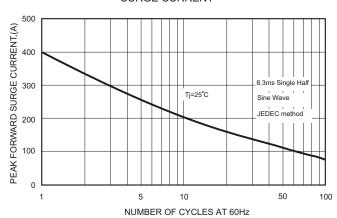


FIG.3-TYPICAL FORWARD

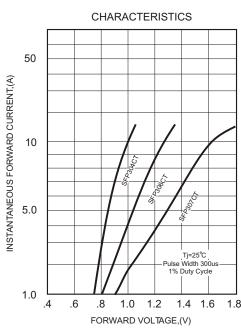


FIG.4-TYPICAL REVERSE

