Preliminary_SF3060PT

Super Fast Rectifiers

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center-tap
- Planar chip construction
- Low forward voltage, high current high current capability
- Low thermal resistance, low power loss
- High temperature soldering guaranteed:250 °C, 0.1"(4.06mm) from case for 10 seconds
- RoHS compliant package

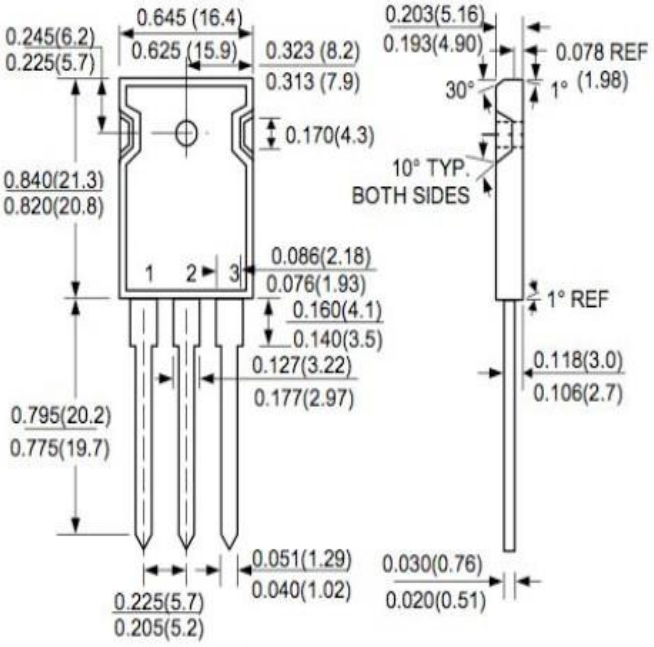
Mechanical Data

- Molding compound meets UL 94 V-0 flammability
- RoHS compliant, and commercial grade
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD 22-B102
- Polarity: As marked

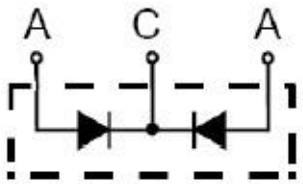
Package type：TO-247AD

Packing & Order Information

50/Tube ; 1,000/Box



Graphic symbol



RoHS COMPLIANT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	SF3060PT	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Working peak reverse voltage	VRWM	420	V
Maximum DC blocking voltage	VDC	600	V
Maximum average forward rectified current TA=100°C	IF(AV)	30	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	300	A
Junction Capacitance	Cj	145	pF
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +175	°C

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Electrical characteristics (Tc=25°C unless otherwise noted)				
Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage per diode at IF=15A, TA=25°C	VF	2.3	2.5	V
Maximum reverse current per leg Tj=25°C	IR	10		uA
at working peak reverse voltage Tj=125°C		500		uA
Reverse Recovery Time IF=0.5A,IR=1A, Irr=0.25A	Trr	35		ns

Thermal characteristics (Tc=25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Typical thermal resistance	Rthja	1.2	°C/W

Notes:

(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

(3) Cj Measured at 1.0MHz and reverse voltage of 4.0V DC.

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