

Green Products

60CPQ150 SCHOTTKY RECTIFIER

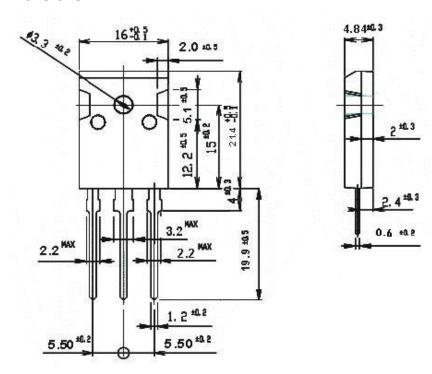
Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- 175 °C T_J operation
- Center tap TO-247AD package
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- · Guard ring for enhanced ruggedness and long term reliability
- Green Products in Compliance with the RoHS Directive
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- · Additional testing can be offered upon request

Mechanical Dimensions: In mm



TO-247AD

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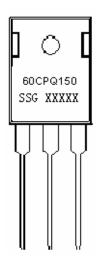
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Marking Diagram:



Where XXXXX is YYWWL

60 = Forward Current (60A)

C = Configuration PQ = Device Type

150 = Reverse Voltage (150V)

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
60CPQ150	TO-247AD (Pb-Free)	30pcs/ tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	150	٧
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C = 145°C, rectangular wave form	60	А
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	510	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg) *	V _{F1}	@30A, Pulse, T _J = 25 °C	0.83	V
	V_{F2}	@30A, Pulse, T _J = 125 °C	0.78	V
Max. Reverse Current (per leg) *	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}\text{C}$	100	uA
ieg)	I _{R2}	$@V_R = \text{rated } V_R$	25	mA
		T _J = 125 °C		
Max. Junction Capacitance (per leg)	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	820	pF

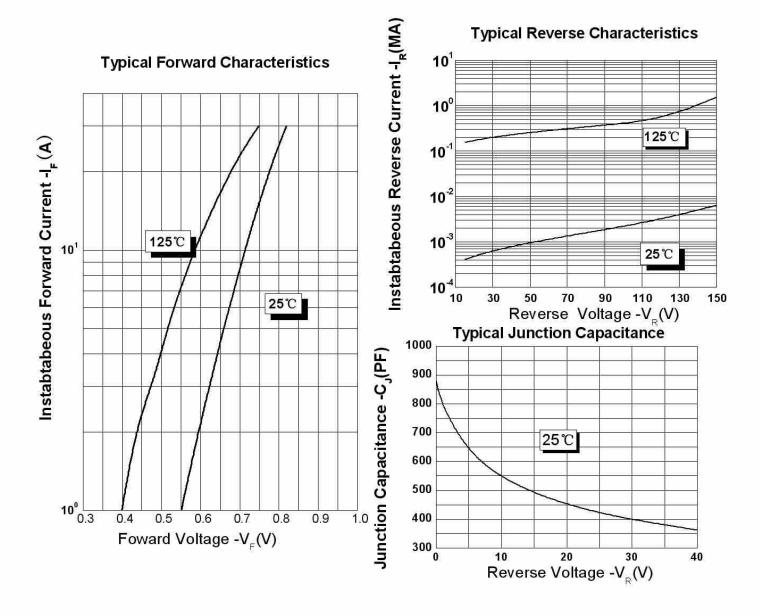
^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +175	°C
Max. Storage Temperature	T _{stg}	-	-55 to +175	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	2.20(per leg)	°C/W
(per leg)			1.10(per device)	*C/VV
Maximum Thermal Resistance, Case to Heat Sink	$R_{ heta CS}$	Mounting surface, smooth and greased	0.24	°C/W
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AD	_	



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Technical Data
Data Sheet N0703. Rev. -

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