

Green Products

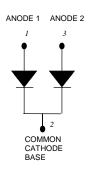
40CPQ200 SCHOTTKY RECTIFIER

Applications:

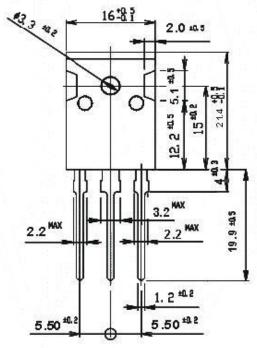
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

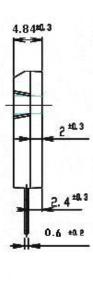
Features:

- 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

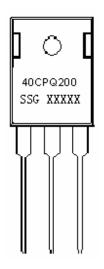
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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Marking Diagram:



Where XXXXX is YYWWL

40 = Forward Current (40A)

C = Configuration PQ = Device Type

200 = Reverse Voltage (200V)

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
40CPQ200	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}	-	200	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C = 145°C, rectangular wave form	40	Α
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	432	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg) *	V_{F1}	@ 20A, Pulse, T _J = 25 °C	0.90	V
	V_{F2}	@ 20A, Pulse, T _J = 125 °C	0.74	V
Max. Reverse Current (per	I _{R1}	$@V_R = rated V_R$	1.5	mA
leg) *		T _J = 25 °C		
	I _{R2}	$@V_R = rated V_R$	15.0	mΑ
		T _J = 125 °C		
Max. Junction Capacitance	CJ	$@V_R = 5V, T_C = 25 °C$	600	pF
(per leg)		$f_{SIG} = 1MHz$		
Max. Voltage Rated of	dv/dt	-	10,000	V/μs
Change				

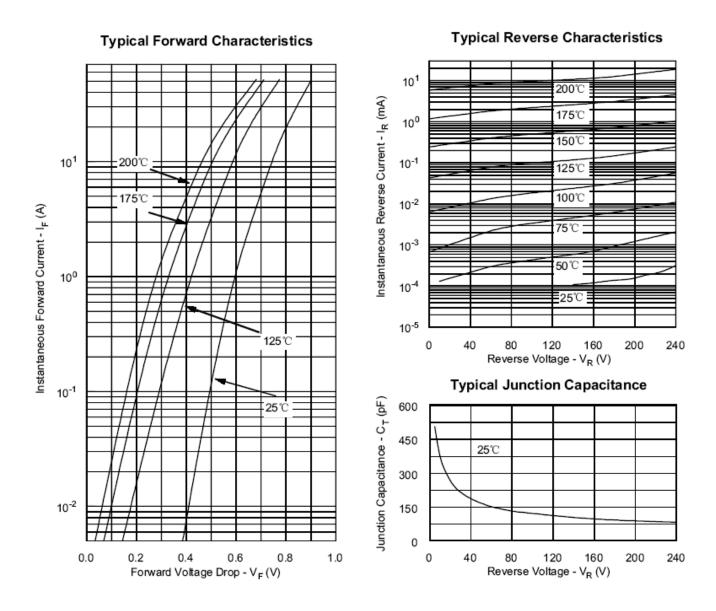
^{*} Pulse Width < 300µs, Duty Cycle <2%

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	$R_{\theta JC}$	DC operation	0.63 (per leg)	°C/W
Resistance Junction to Case			0.31 (per device)	5
Maximum Thermal	$R_{\theta CS}$	Mounting surface, smooth and	0.24	°C/W
Resistance, Case to Heat		greased		
Sink				
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AD		



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40CPQ200

Technical Data
Data Sheet N0699, Rev. -

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