

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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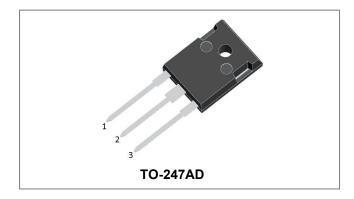








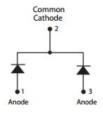
30CPQ200 SCHOTTKY RECTIFIER



Features

- 150 °C T_J operation
- 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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Applications

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=95°C, rectangular wave form	15(Per Leg) 30(Per Device)	Α
Peak One Cycle Non-Repetitive Surge Current(Per Leg)	I _{FSM}	8.3ms, Half Sine pulse	408	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop	V _{F1}	@ 15A, Pulse, T _J = 25 °C	0.85	1.05	V
(Per Leg)*	V _{F2}	@ 15A, Pulse, T _J = 125 °C	0.70	0.83	V
Reverse Current (Per Leg)*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}\text{C}$	0.0001	0.1	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 ^{\circ}\text{C}$	0.1	15	mA
Junction Capacitance(Per Leg)	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	260	540	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

 $^{^*\,}$ Pulse width < 300 $\mu s,\,$ duty cycle < 2%

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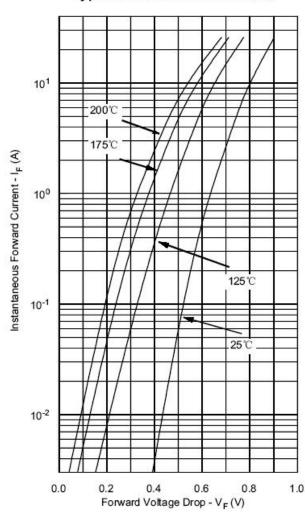


Thermal-Mechanical Specifications:

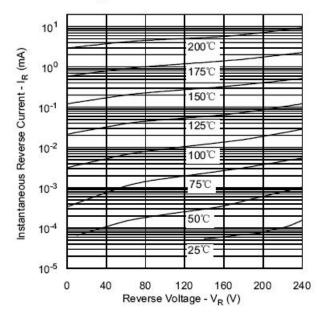
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case(per leg)	R ₀ JC	DC operation	1.1	°C/W
Typical Thermal Resistance, case to Heat Sink	R _{0cs} Mounting surface, smooth and greased		0.24	°C/W
Approximate Weight	wt	-	6.28	g
Case Style	TO-247AD			

Ratings and Characteristics Curves

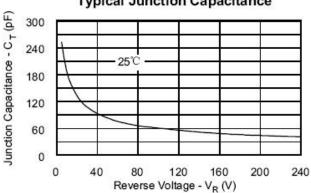
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



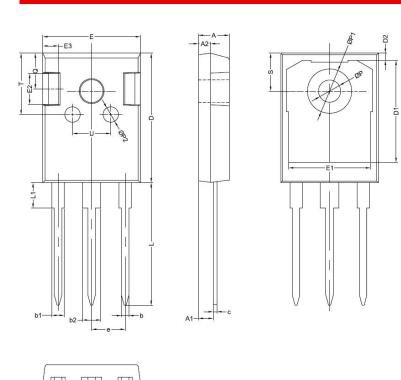
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Mechanical Dimensions TO-247AD



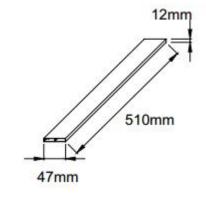
CVMDOL	Millimeters				
SYMBOL	MIN.	TYP.	MAX.		
Α	4.80	5.00	5.20		
A1	2.20	2.41	2.61		
A2	1.90	2.00	2.10		
b	1.10	1.20	1.40		
b1	1.80	2.00	2.20		
b2	2.80	3.00	3.20		
С	0.50	0.60	0.75		
D	20.30	21.00	21.20		
D1		16.55			
D2 E		1.20			
Е	15.45	15.80	16.00		
E1		13.30			
E2		5.00			
E3		2.50			
е		5.44			
L	19.42	19.92	20.70		
L1		4.13			
Р	3.50	3.60	3.70		
P1	7.1		7.40		
P2		2.50			
Q		5.80			
Q S T	6.05	6.15	6.25		
		10.00			
U		6.20			

Ordering Information:

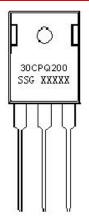
Device	Package	Shipping	
30CPQ200	TO-247AD(Pb-Free)	25pcs / tube	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Tube Specification



Marking Diagram



Where XXXXX is YYWWL

30 = Forward Current (30A) 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

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