



Schottky Diodes

Features

High frequency operation
Low forward voltage drop
High purity, high temperature epoxy encapsulation for
enhanced mechanical strength and moisture resistance
Guard ring for enhanced ruggedness and long term reliability
Solder dip 275 °C max. 7s, per JESD 22-B106

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection

Mechanical Data

Package: R-6

Molding compound meets UL 94 V-0 flammability

rating, RoHS-compliant

Terminals: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

Polarity: Color band denotes cathode end

Maximum Ratings (Ta=25 ℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	30SQ045
Device Marking Code			30SQ045
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25°C	lo	А	30
Surge(Non-repetitive)Forward Current @60Hz half sine wave, 1 cycle, Ta=25℃	IFSM	А	380
Current Squared Time @1ms t 8.3ms Tj=25°C	l ² t	A ² s	599
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150
Junction Temperature IN DC Forward Mode-Forward Operations, without reverse bias, t 1 h (Fig. 1)①	Тј	$^{\circ}$ C	-55 ~+200

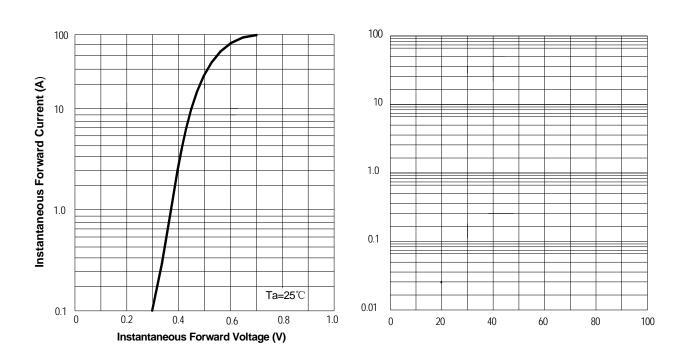




Ordering Information (Example)

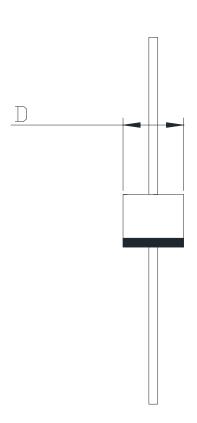
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
30SQ045	Approximate 2.02	500	10	5000	Таре
30SQ045	Approximate 2.02	1000	4	4000	Reel

Characteristics (Typical)





Outline Dimensions



R-6					
Dim	Min	Max			
Α	25.4	/			
В	1.2	1.3			
С	8.6	9.1			
D	8.6	9.1			



30SQ045

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