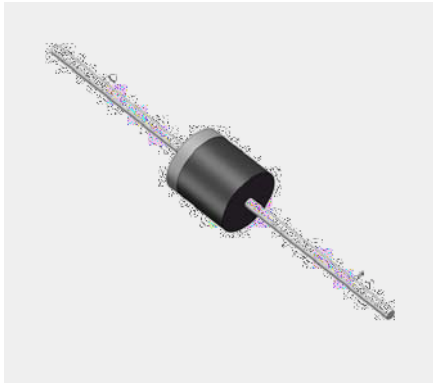


Schottky Diodes



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 ($T_a=25$ Unless otherwise specified)

	I_O	A	15
Surge(Non-repetitive)Forward Current @60HZ sine wave, 1 cycle, $T_a=25$	I_{FSM}	A	275
Current Squared Time @1ms $t<8.3ms$ $T_j=25$	I^2t		

				15SQ045
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=15.0A$	0.48
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ $T_a=25$	0.1
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_a=100$	7.0
	I_{RRM3}		$V_{RM}=V_{RRM}$ $T_a=125$	20



15SQ045

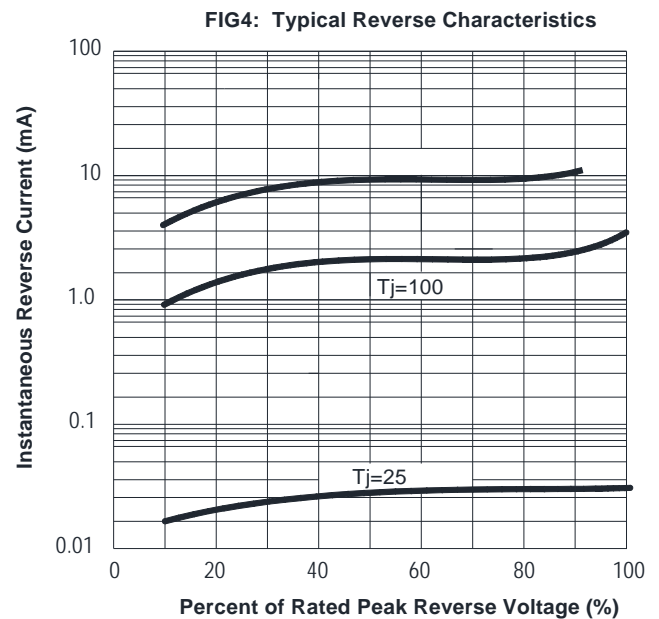
Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	15SQ045
Thermal Resistance	Between junction and case	R J-C	/W	2.5

Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
15SQ045	Approximate 1.88	500	10	5000	Tape
15SQ045	Approximate 1.88	1000	4	4000	Reel

Characteristics (Typical)





Outline Dimensions

R-6		
Dim	Min	Max
A	25.4	/
B	1.2	1.3
C	8.6	9.1 B



Disclaimer

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