

## 40SQ045

## 40A Axial Leaded Schottky Diodes Rectifiers - 45V

#### **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
- Suffix "-H" indicates Halogen free parts,ex,40SQ045-H

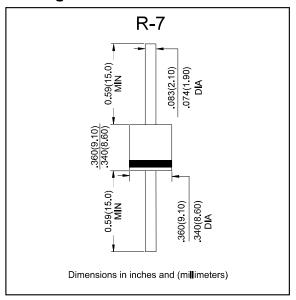
#### **Mechanical Data**

Package: R-7
 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

### Package outline



### Maximum ratings and Electrical Characteristics (AT T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I o			40	Α
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	FSM			450	Α
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ}C$				0.5	mA
Neverse current	$V_R = V_{RRM} T_A = 100 ^{\circ}C$	R			50	
Thermal resistance	Junction to case	$R_{\scriptscriptstyle{ ext{ iny BJC}}}$		2.0		°C/W
Storage temperature		$T_{\mathtt{STG}}$	<b>-</b> 55		+150	°C

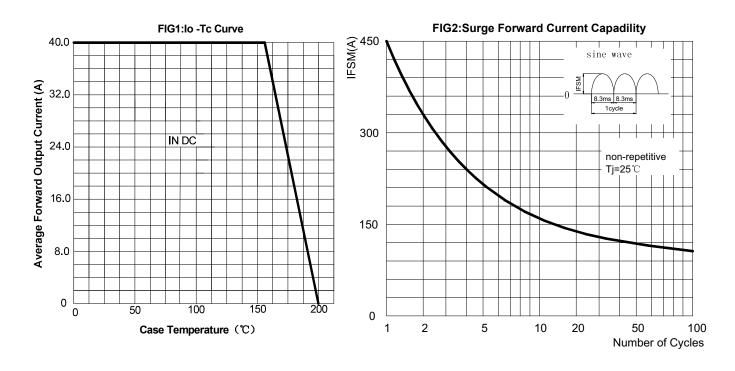
SYMBOLS	V <sub>RRM</sub> *1 (V)	V <sub>RMS</sub> *2 (V)	V <sub>R</sub> *3 (V)	V <sub>F</sub> *4 (V)	Operating temperature T <sub>.</sub> , (°C)
40SQ045	45	31.5	45	0.55	-55 to +200

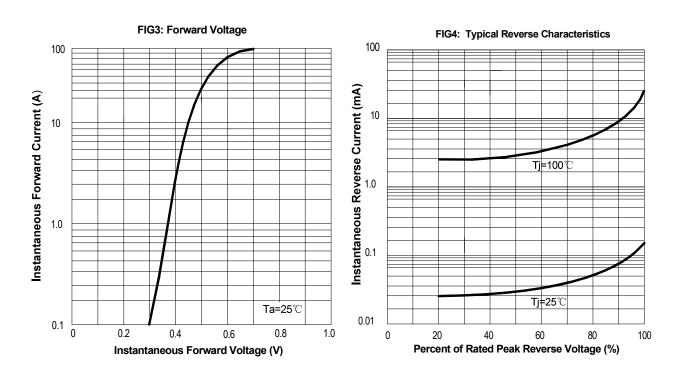
- \*1 Repetitive peak reverse voltage
- \*2 RMS voltage
- \*3 Continuous reverse voltage
- \*4 Maximum forward voltage IF = 40.0A, 25°C



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### Characteristics (Typical)







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### **Pinning information**

Pin	Simplified outline	Symbol		
Pin1 cathode Pin2 anode	12	12		

### Marking

Type number	Marking code
40SQ045	40SQ045