SR2545

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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR2545
Device Marking Code			SR2545
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz wave, R-load, Ta=25°C	lo	А	20
Surge(Non-repetitive)Forward Current @60Hz half sine wave, 1 cycle, Ta=25℃	IFSM	А	275
Current Squared Time @1ms≤t≤8.3ms Tj=25°C	l²t	A ² s	315
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150
Junction Temperature@ IN DC Forward Mode-Forward Operations, without reverse bias, t ≤1 h (Fig. 1)①	Tj	°C	-55 ~+200

NOTE

① Meets the requirements of IEC 61215 Ed. 2 bypass diode thermal test.

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR2545
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=20.0A	0.5
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM T _a =25℃	0.10
	lRRM2		VRM=VRRM T _a =100℃	7.0
	IRRM3		VRM=VRRM T _a =125℃	20

Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

PARAMETER		SYMBOL UNIT		SR2545	
Thermal Resistance	Between junction and case	$R_{\theta J\text{-}C}$	°C W	2.5	

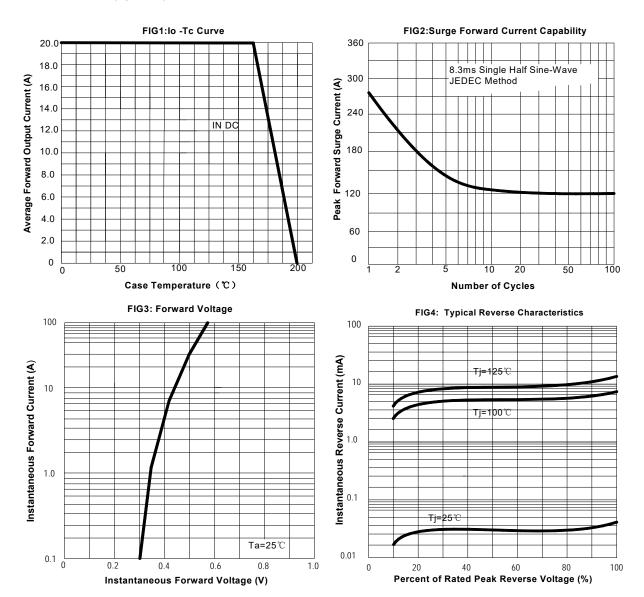




■Ordering Information (Example)

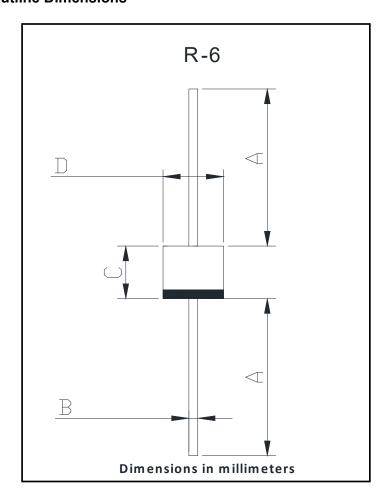
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR2545	Approximate 1.88	500	10	5000	Таре
SR2545	Approximate 1.88	1000	4	4000	Reel

■Characteristics (Typical)





■Outline Dimensions



R-6			
Dim	Min	Max	
Α	25.4	1	
В	1.2	1.3	
С	8.6	9.1	
D	8.6	9.1	



SR2545

Disclaimer

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