



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

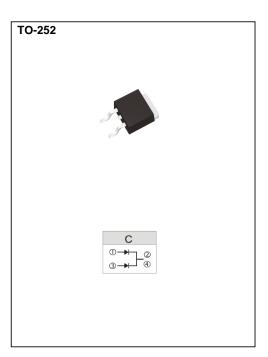
VOLTAGE 45 Volt CURRENT 10 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, High efficiency
- · High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in compliance with EU RoHS 2.0
- · Green molding ccompound as per IEC 61249 standard

MECHANCAL DATA

- · Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marking
- · Weight: 0.0104 ounces, 0.297 grams.



MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	V
Maximum RMS Voltage		VRMS	32	V
Maximum DC Blocking Voltage		Vr	45	V
Maximum Average Rectified Output Current	per device per diode	I F(AV)	10 5	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I FSM	80	Α
Typical Thermal Resistance		Reuc	8	°C/W
Operating Junction Temperature Range And Storage Temperature Range		ТЈ,Тѕтс	-55 to + 150	°C

NOTE: 1.Mounted on 10cm x 10cm x 0.5mm copper pad area

ELECTRICAL CHARACTERISTICS (TA=25 C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	Ta=25°C	45	-	-	٧
Instantaneous forward voltage	VF	F=1A F=3A F=5A	Ta=25°C	- - -	0.34 0.42 0.49	- - 0.54	V
		F=1A F=3A	Ta=125°C	-	0.26 0.39	-	V
Reverse current	lr	V _R =36V		-	25	-	μΑ
		V _R =45V	Ta=25°C Ta=125°C	-	- 5	210 -	μA mA





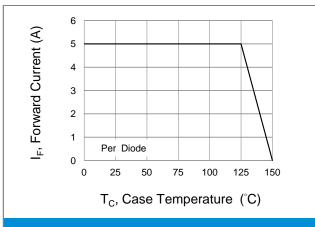


Fig.1 Forward Current Derating Curve

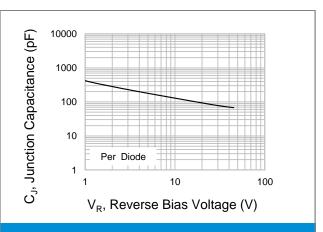


Fig.2 Typical Junction Capacitance

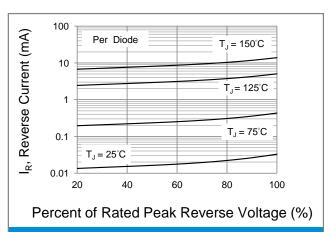


Fig.3 Typical Reverse Characteristics

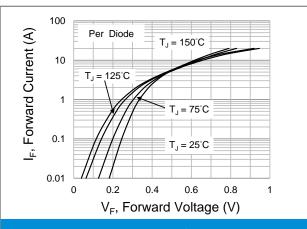


Fig.4 Typical Forward Characteristics

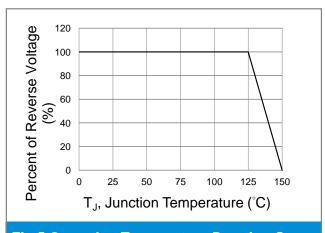


Fig.5 Operating Temperature Derating Curve

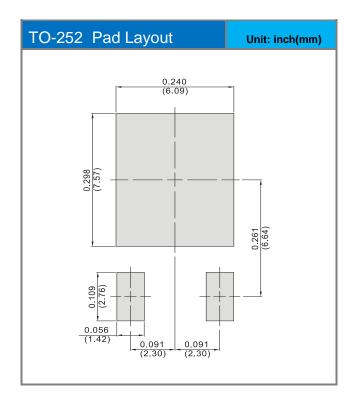




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SDM1045CS_S2_00001	TO-252	3K / 13" Reel	SDM1045CS	Halogen free

Packaging Information & Mounting Pad Layout







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