

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

45 Volt **CURRENT** 16 Ampere

FEATURES

VOLTAGE

- 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 2011/65/EU directive
- · Green molding compound as per IEC61249 Std. . (Halogen Free)

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.

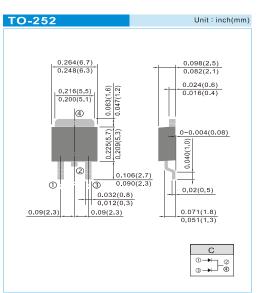
MAXIMUM RATINGS(TA=25°C unless otherwise noted)

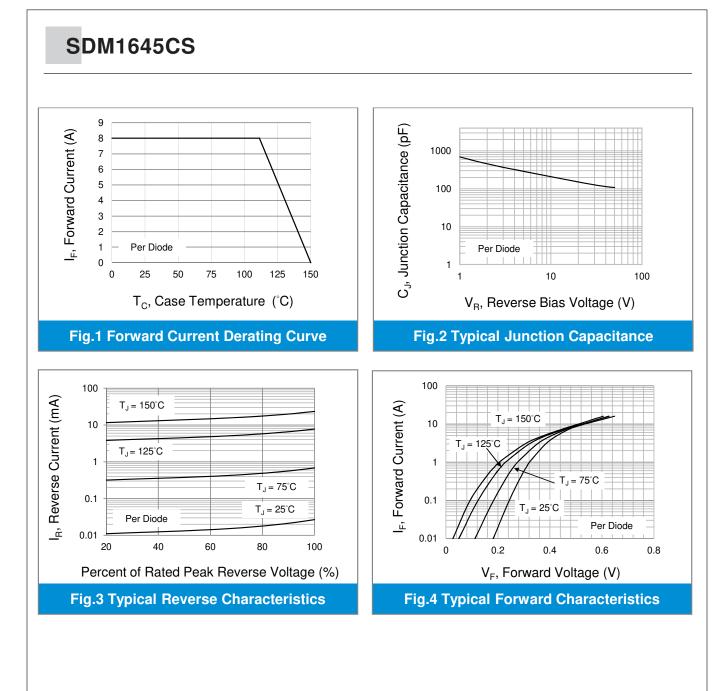
PARAMETER	SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage		VRRM	45	v
Maximum rms voltage		VRMS	32	V
Maximum dc blocking voltage		VR	45	V
Maximum average forward rectified current	per device per diode	l F(AV)	16 8	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	120	A
Typical thermal resistance per diode	(Note 1)	R⊛jc	8	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		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 per diode	Vbr	I R=0.5mA		45	-	-	V
Instantaneous forward voltage per diode	VF	f=1A f=5A f=8A	Tj=25°C	- - -	0.32 0.43 0.49	- - 0.54	V
		I	TJ=125℃	-	0.22 0.39	-	V
Reverse current per diode		VR=36V	TJ=25°C	-	20	-	μA
	ΙR	V _R =45V	TJ=25°C TJ=125°C	-	- 8	210 -	μA mA



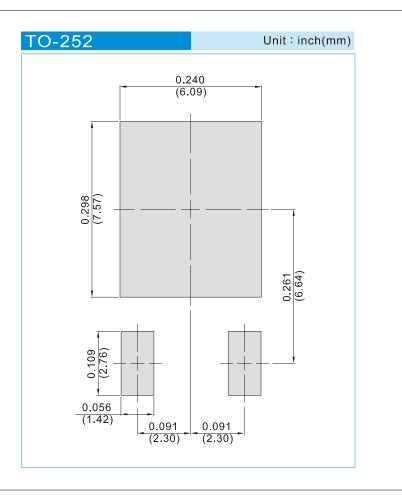






SDM1645CS

MOUNTING PAD LAYOUT



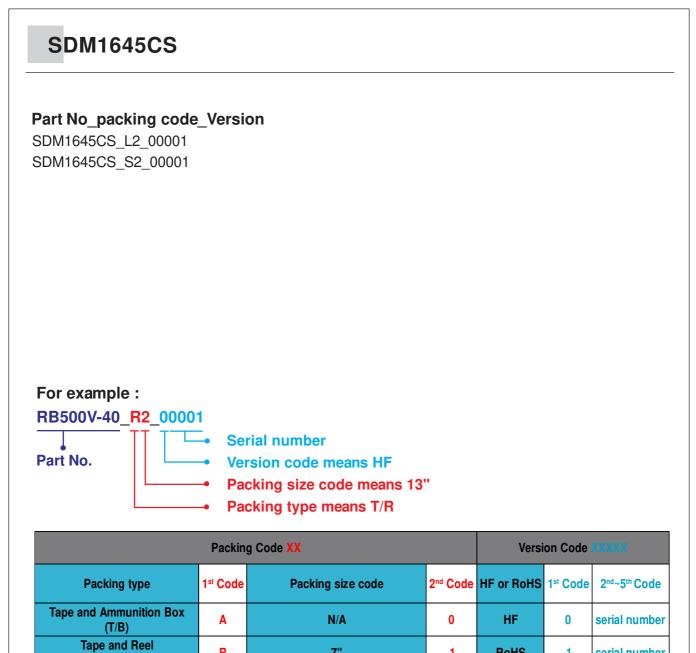
ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

de)





7"

13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

1

2

Χ

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D

RoHS

1

serial number

R

В

Т

S

L

F

(T/R) **Bulk Packing**

(B/P) **Tube Packing**

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING





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