



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

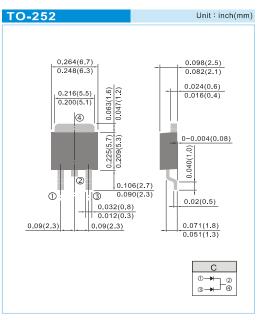
CURRENT 16 Ampere

FEATURES

• Ultra low forward voltage drop, low power loss

50 Volt

- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)



MECHANICAL 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	50	V
Maximum rms voltage		Vrms	35	V
Maximum dc blocking voltage		VR	50	V
Maximum average forward rectified current	per device per diode	I F(AV)	16 8	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	120	А
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

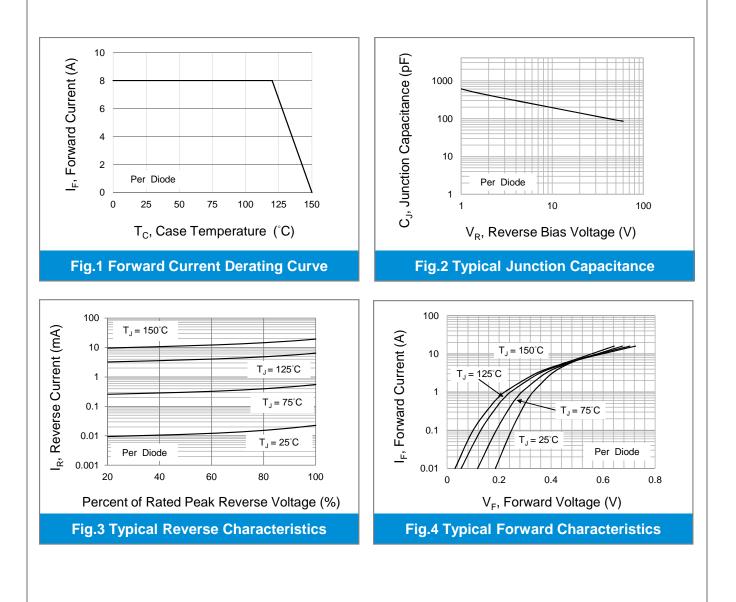
Note : 1. Mounted on 10cm x 10cm x 0.5mm copper pad area



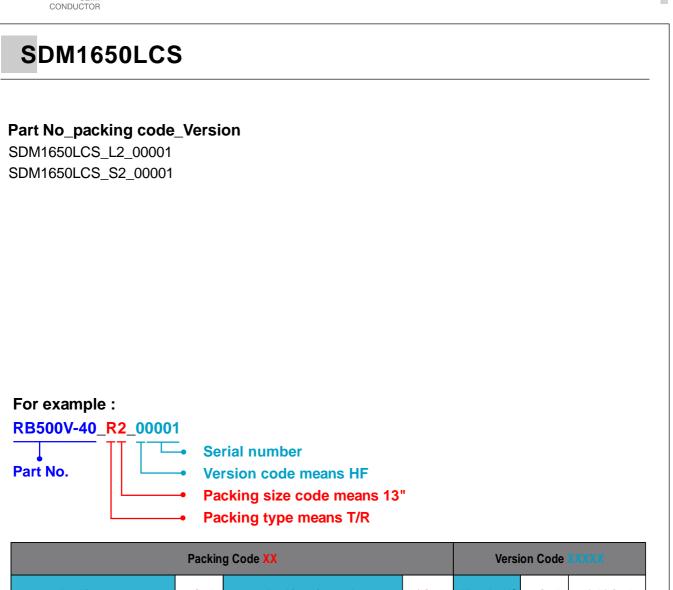
SDM1650LCS

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		50	-	-	V
Instantaneous forward voltage per diode	VF	F=1A F=5A F=8A F=1A F=5A	TJ=25°C TJ=125°C	- - - - -	0.33 0.46 0.52 0.24 0.43	- - 0.57 - -	V V
Reverse current per diode	l r	Vr=40V	TJ=25℃	-	15	-	μΑ
		Vr=50V	TJ=25°C TJ=125°C	-	- 7	210 -	μA mA







Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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