



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt CURRENT 16 Ampere

FEATURES

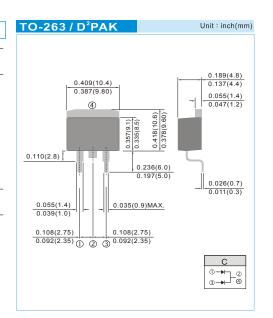
- · Ultra Low forward voltage drop, low power loss
- High efficiency operation
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

Case: TO-263/D2PAK, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Weight: 0.049 ounces, 1.38 grams.



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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	60	V
Maximum rms voltage		VRMS	42	V
Maximum dc blocking voltage		VR	60	٧
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	150	А
Typical thermal resistance per diode	(Note 1)	R⊚JC	3.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтѕ	-55 to + 150	°C

Note: 1. Mounted on infinite heatsink.





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		60	-	-	V
Instantaneous forward voltage per diode	Vf	F=1A F=5A F=8A	TJ=25°C		0.3 0.42 0.49 0.22	- - 0.55 -	V
		I _F =5A	TJ=125°C	-	0.4	-	
Reverse current per diode	ΙR	VR=42V		-	40	-	μΑ
		VR=60V	TJ=25°C TJ=125°C	-	- 18	220 -	μA mA

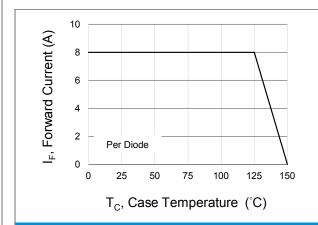


Fig.1 Forward Current Derating Curve

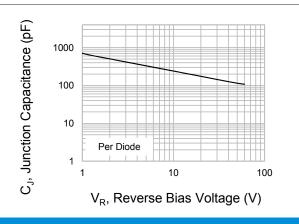


Fig.2 Typical Junction Capacitance

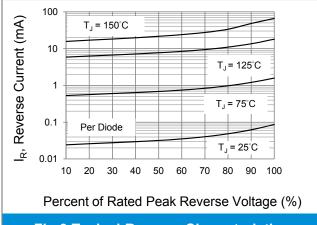


Fig.3 Typical Reverse Characteristics

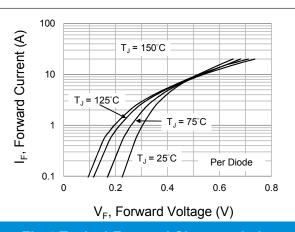


Fig.4 Typical Forward Characteristics

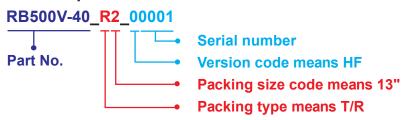




Part No_packing code_Version

SBM1660VDC_R2_00001

For example:



Packing Code XX			Version Code XXXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	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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