



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts CURRENT 16 Amperes

FEATURES

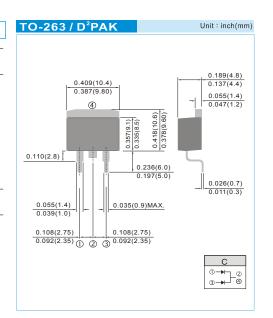
- Ultra Low forward voltage drop, low power losses
- High efficiency operation
- · Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: TO-263/D2PAK, Plastic

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

Weight: 0.0514 ounces, 1.46 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	٧
Maximum dc blocking voltage		VR	60	٧
Maximum average forward rectified current	per device per diode	l f(AV)	16 8	Α
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		Тѕтс	-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		TJ=25°C TJ=125°C	- - - -	0.3 0.42 - 0.22 0.4	- 0.55 - -	V
Reverse current per diode	ΙR	I _F =8A V _R =42V		-	40	-	μА
		VR=60V	TJ=25°C TJ=125°C	-	- 18	220	μA mA

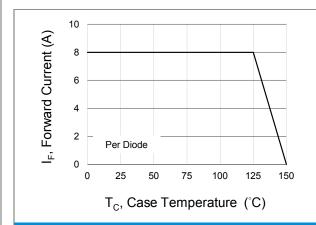


Fig.1 Forward Current Derating Curve

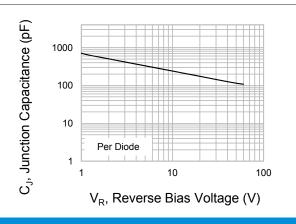
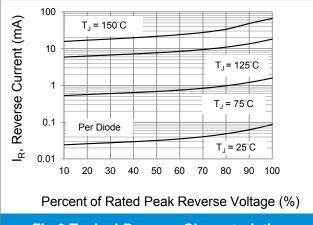


Fig.2 Typical Junction Capacitance





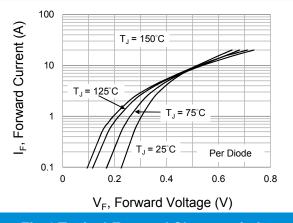


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBM1660VDC_T0_00001 SBM1660VDC_T0_10001

For example:



Packing Code XX				Version Code XXXXX			
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)	٦	PANASERT T/B CATHODE UP (PBCU)	J				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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