



UITRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volts CURRENT 20 Amperes

FEATURES

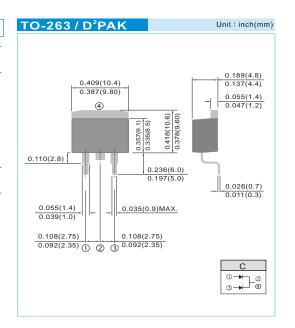
- Ultra Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

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	45	V
Maximum average forward rectified current	per diode per device	I F(AV)	20 10	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	280	А
Typical junction capacitance (V _R =4V, f=1MHz)		Сı	860	pF
Typical thermal resistance per diode	(Note 1)	Rөлс	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 CC	NDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	VBR	I R=0.5mA		45	-	-	٧
Instantaneous forward voltage per diode	Vr	I F=1A I F=5A I F=10A	TJ=25°C	- - -	0.28 0.36 0.41	- - 0.45	V
		I F=1A I F=5A I F=10A	TJ=125°C	- - -	0.18 0.28 0.36	- - -	V
Reverse current per diode	l R	VR=36V		-	100	-	μΑ
		VR=45V	TJ=25°C TJ=125°C	-	- 35	320 -	μA mA

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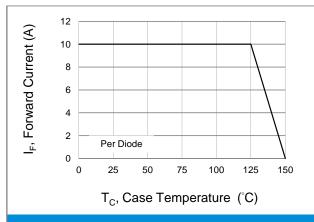


Fig.1 Forward Current Derating Curve

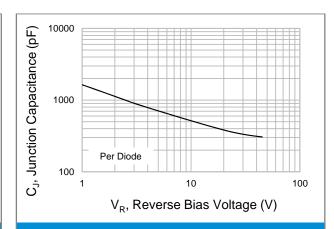


Fig.2 Typical Junction Capacitance

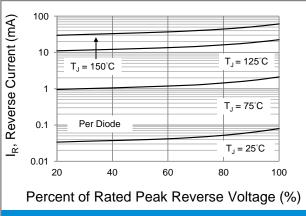


Fig.3 Typical Reverse Characteristics

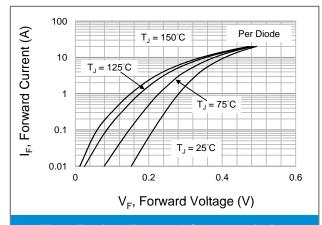
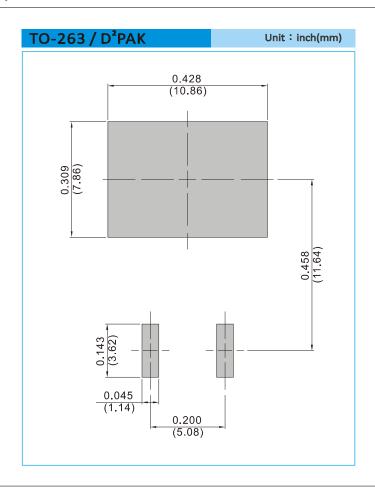


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 0.8K per 13" plastic Reel





Part No_packing code_Version

SBM2045VDC_R2_00001 SBM2045VDC_R2_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)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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