



SS0130UFN2B

SURFACE MOUNT SCHOTTKY BARRIER

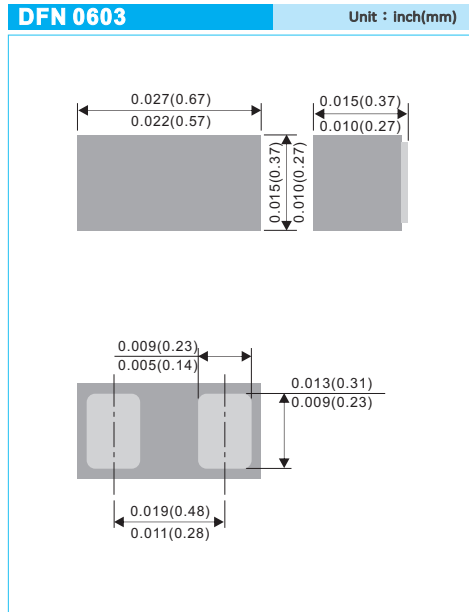
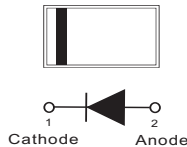
VOLTAGE 30 V **CURRENT** 100 mA

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC
- High conductor
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: DFN0603, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00001 ounces, 0.00028grams
- Polarity: Color band denotes cathode end
- Marking: U



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	V
Maximum RMS Voltage	V _{RMS}	21	V
Maximum DC Blocking Voltage	V _R	30	V
Maximum Average Rectified Output Current	I _{F(AV)}	100	mA
Power Dissipation	P _D	250	mW
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	500	mA
Typical Thermal Resistance (Note 1)	R _{θJA}	500	°C/W
Operating Junction Temperature Range And Storage Temperature Range	T _J , T _{STG}	-55 to + 150	°C

Note.1 Mounted on a FR4 PCB, single-sided copper, mini pad.



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ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =10μA T _A =25°C	30	-	-	V
Instantaneous forward voltage	V _F	I _F =10mA I _F =100mA T _A =25°C	-	0.33 0.74	0.37 1	V
		I _F =10mA I _F =100mA T _A =125°C	-	0.22 0.71	-	V
Reverse current	I _R	V _R =10V T _A =25°C	-	-	3	μA
		V _R =30V T _A =25°C T _A =125°C	-	- 500	6 -	μA μA



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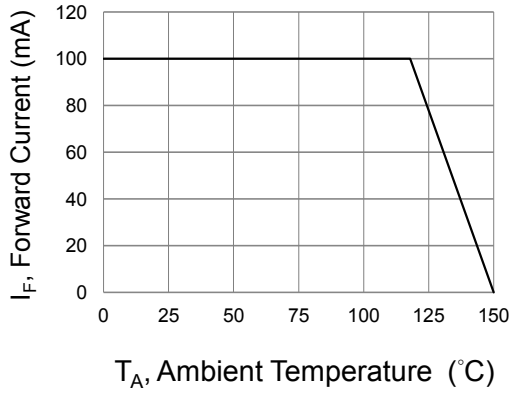


Fig.1 Forward Current Derating Curve

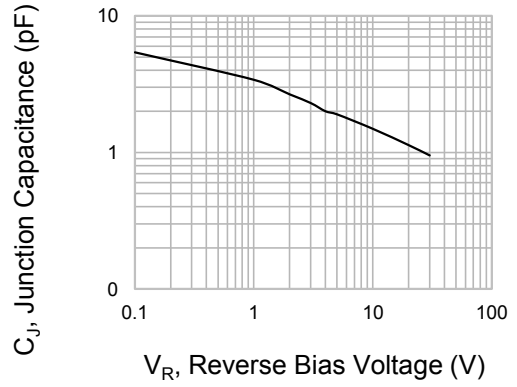


Fig.2 Typical Junction Capacitance

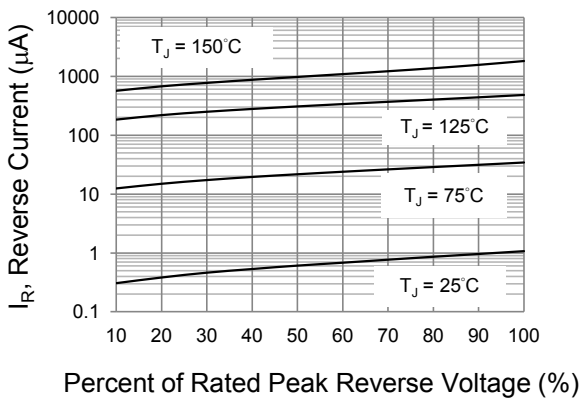


Fig.3 Typical Reverse Characteristics

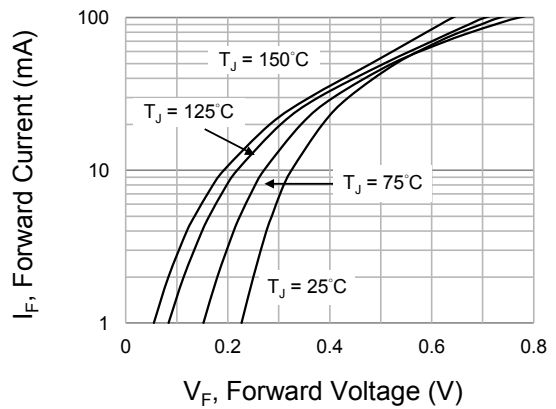


Fig.4 Typical Forward Characteristics

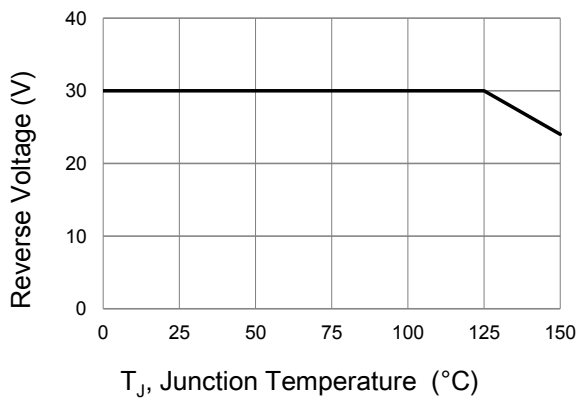
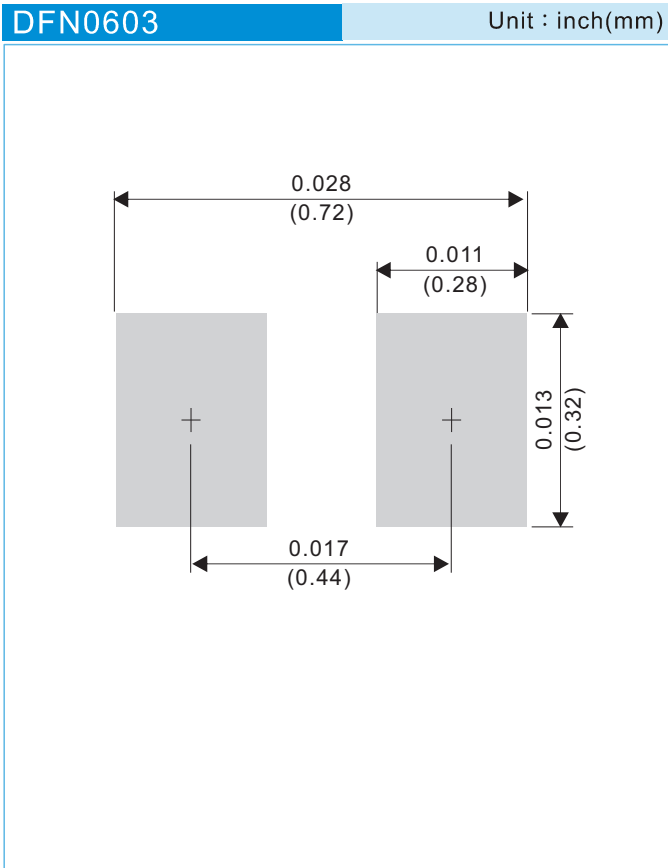


Fig.5 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 10K per 7" plastic Reel



SS0130UFN2B

Part No_packing code_Version

SS0130UFN2B_R1_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXXX		
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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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