SXT55LF ULTRA LOW VF SCHOTTKY BARRIER REC	TIFIER	
Voltage50 VCurrent5 A	SMAF	Unit: inch(mm
 Features Ideal for automated placement Ultra low forward voltage drop, low power loss High efficiency operation Low thermal resistance Ultra thin profile package for space constrained utilization Easy pick and place package suitable for automated handling Lead free in compliance with EU RoHS 2011/65/EU directive Green molding compound as per IEC61249 Std (Halogen Free) 	0.073(1.85)	0.154(3.90) 0.145(3.70) 0.193(4.90) 0.177(4.50)
 Case: SMAF Molded Plastic Terminals: Solder plated, solderable per MIL-STD-750,Method 2026 Polarity: Color band denotes cathode end Standard packaging: 12mm tape (EIA-481) Weight: 0.0011 ounces, 0.0328 grams 	0.038(0.95) 0.021(0.55)	0.038(0.95) 0.021(0.55)

Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	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		lf(AV)	5	А
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		lfsm	80	А
Typical thermal resistance	(Note 2)	$R_{ extsf{ heta}JA}$	150	00000
	(Note 1)	$R_{ extsf{ heta}JC}$	22	°C/W
Operating junction temperature range		TJ	-55 to +150	°C
Storage temperature range		Тѕтс	-55 to +150	°C

Note : 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

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



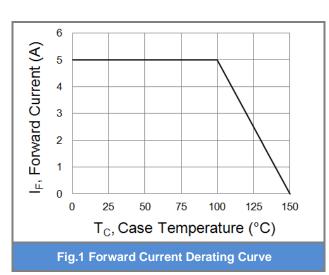


Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	TJ=25°C	50	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	TJ=25°C	-	0.32	-	V
		I _F =2A		-	0.37	-	
		I _F =5A		-	0.45	0.5	
		I _F =1A	TJ=125°C	-	0.2	-	V
		I _F =2A		-	0.29	-	
Reverse current	I _R	V _R =40V	TJ=25°C	-	30	-	μA
		V _R =50V	TJ=25°C	-	-	100	μA
			TJ=125°C	-	15	-	mA



TYPICAL CHARACTERISTIC CURVES



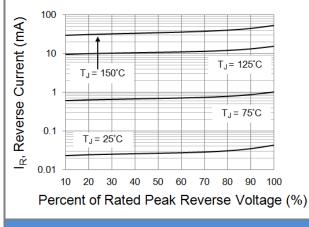
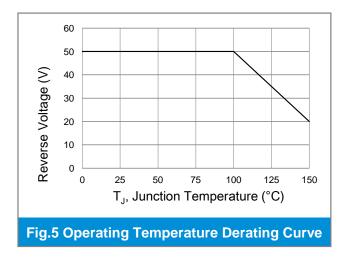
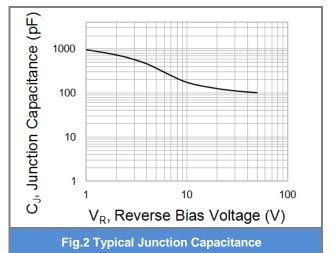
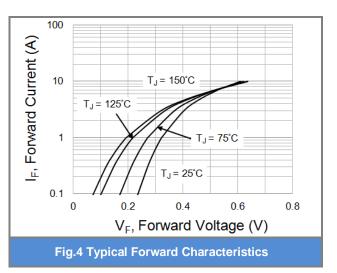


Fig.3 Typical Reverse Characteristics







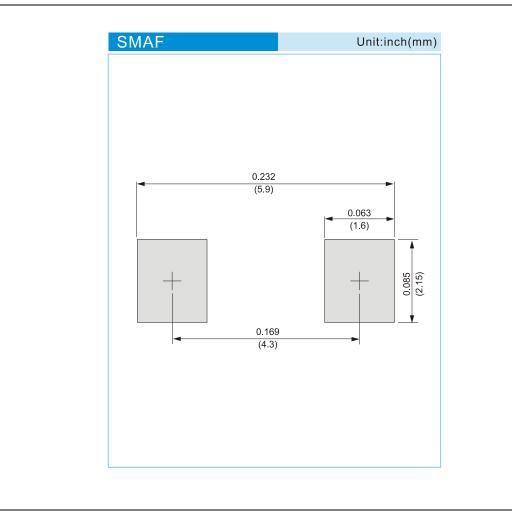




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SXT55LF_R1_00001	SMAF	3K pcs / 7" reel	SXT55LF	Halogen free
SXT55LF_R2_00001	SMAF	10K pcs / 13" reel	SXT55LF	Halogen free

MOUNTING PAD LAYOUT





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