NOTES:1.Mounted on a FR4 PCB, single-sided copper, mini pad. 2.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area

# SX52F~SX56F

### SCHOTTKY BARRIER RECTIFIER

### VOLTAGE FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications in order to optimize board space

20-60 Volt CURRENT

- · Low power loss, high efficiency
- High surge capacity
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

Case : SMAF, Plastic

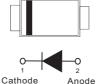
Terminals : Solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

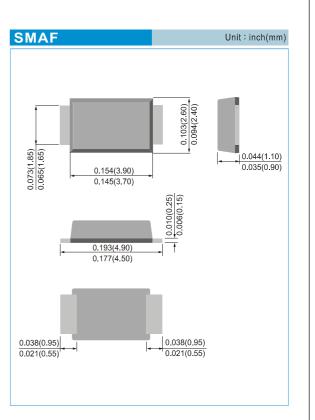
Standard packaging : 12mm tape (EIA-481)

Weight : 0.0012 ounces, 0.0328 grams

Marking : Part number



5 Ampere



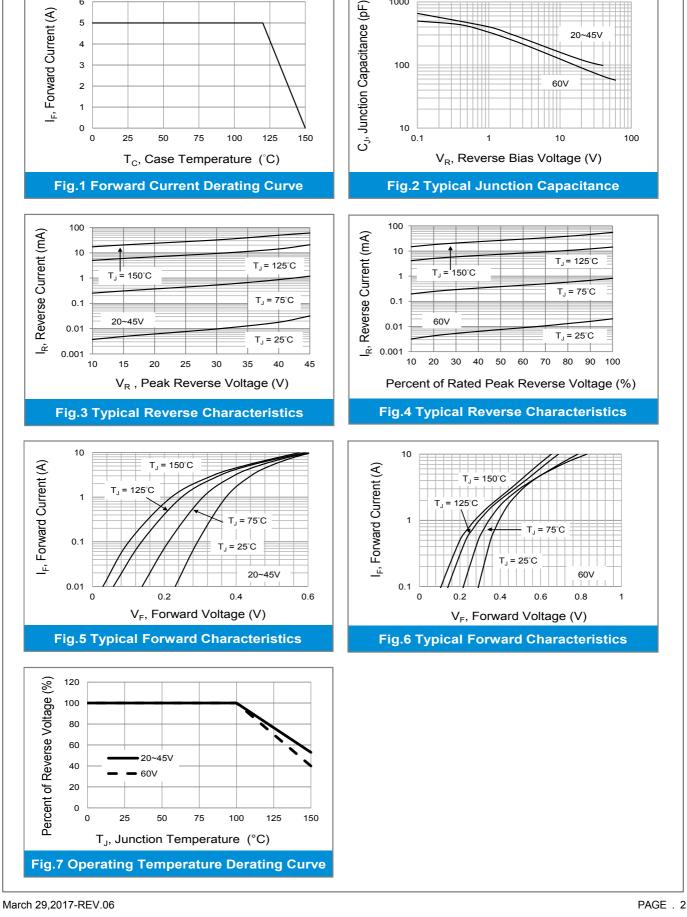
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SX52F	SX53F	SX54F	SX54AF	SX56F	UNITS	
Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	45	60	v	
RMS Voltage	V <sub>rms</sub>	14	21	28	31	42	v	
DC Blocking Voltage		V <sub>R</sub>	20	30	40	45	60	V
Average Forward Current			5					A
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load		I <sub>fsm</sub>	100					A
Forward Voltage at 5A	V <sub>F</sub>	0.54 0.66				0.66	V	
DC Reverse Current at Rated DC Blocking Voltage	T <sub>J</sub> =25°C	I <sub>R</sub>	100 150		150	100	μA	
DC Reverse Current at Rated DC Blocking Voltage	T_=100°C	I <sub>R</sub>		30			20	mA
Typical Junction Capacitance	Vr=10V,1MHz	C	159 1			125	рF	
Typical Thermal Resistance	(Note 1) (Note 2)	R <sub>oja</sub> R <sub>ojl</sub>	150 15					°C/W
Operating Junction Temperature and Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150					°C	









1000

100

SX52F~SX56F

6

5

4 3

2 1

I<sub>F</sub>, Forward Current (A)



20~45V

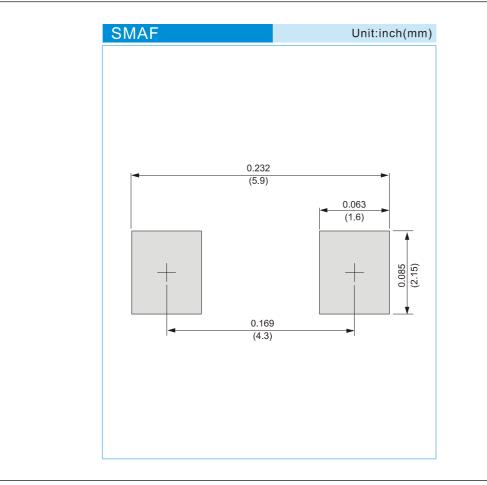
60V





## SX52F~SX56F

#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





## SX52F~SX56F

### Part No\_packing code\_Version

SX52F\_R1\_00001 SX52F\_R2\_00001

### For example :

## RB500V-40\_R2\_00001

L



Serial number
Version code means HF
Packing size code means 13"
Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					





## SX52F~SX56F

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