

SS52F THRU SS520F

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200V Forward Current - 5.0A FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

• Case: SMAF

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

• Approx. Weight: 27mg 0.00086oz

PINNING

PIN	DESCRIPTION					
1	Cathode					
2	Anode					



Top View

Marking Code: SS52 — SS520 Simplified outline SMAF and symbol

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 $^{\circ}$ C

Parameter	Symbols	SS52F	SS54F	SS56F	SS58F	SS510F	SS512F	SS515F	SS520F	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0							Α	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							А	
Max Instantaneous Forward Voltage at 5 A	V _F	0.45 0.55 0.70 0.85						V		
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =100°C	I _R	1.0 50							mA	
Typical Junction Capacitance 1)	Cj	80	00	500					pF	
Typical Thermal Resistance 2)	Reja	55						°C/W		
Operating Junction Temperature Range	Tj	-55 ~ +125						°C		
Storage Temperature Range	T_{stg}	-55 ~ +150							°C	

1) Measured at 1MHz and applied reverse voltage of 4 V D.C.

2) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

SHIKE MAKE CONSCIOUS PRODUCT

Conscious Products Begin With Conscious People





SS52F THRU SS520F

Fig.1 Forward Current Derating Curve

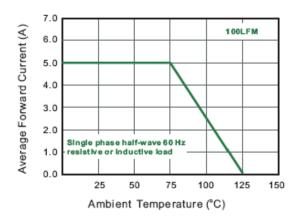


Fig.2 Typical Reverse Characteristics

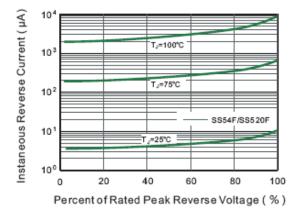


Fig.3 Typical Forward Characteristic

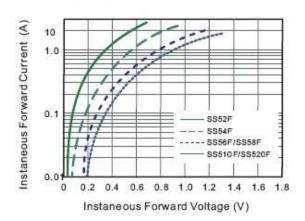


Fig.4 Typical Junction Capacitance

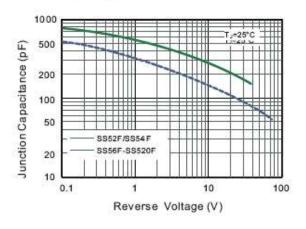


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

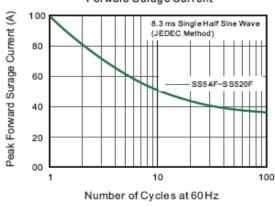
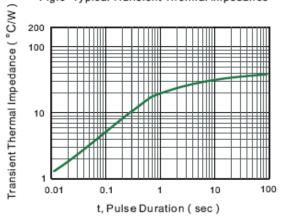


Fig.6- Typical Transient Thermal Impedance



SHIKE MAKE CONSCIOUS PRODUCT
CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE



REV.07

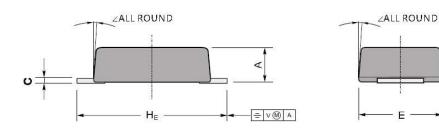


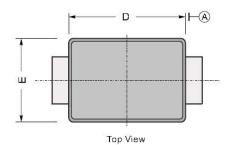
SS52F THRU SS520F

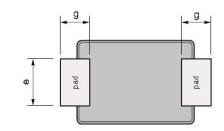
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



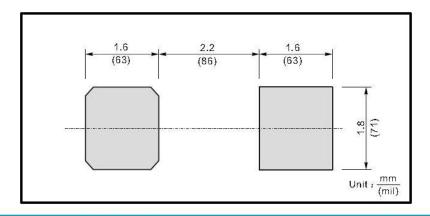




Bottom View

UNIT		Α	С	D	Е	е	g	HE	2	
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9		
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	7∘	
mil	max	43	7.9	146	106	63	47	193	,	
	min	35	4.7	130	94	51	31	173		

The recommended mounting pad size



SHIKE MAKE CONSCIOUS PRODUCT

Conscious Products Begin With Conscious People



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Shikues manufacturer:

Other Similar products are found below:

MA4E2039 MA4E2508M-1112 MBR10100CT-BP MBR1545CT MMBD301M3T5G GS1JE-TP RB160M-50TR BAS 3010S-02LRH E6327
BAT 54-02LRH E6327 NSR05F40QNXT5G NSVR05F40NXT5G NTE555 JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W
SBAT54CWT1G SBM30-03-TR-E SK310-T SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G BAS 70-02L E6327 DMJ3940-000 SB007-03C-TB-E SB10015M-TL-E SB1003M3-TL-E SK32A-TP SK33B-TP SK35A-TP SK38B-TP NTE505 NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ)
ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF BAT54-13-F ACDBA340-HF ACDBA260LR-HF