



# SS52A THRU SS520A

## Surface Mount Schottky Rectifier

### Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

### Mechanical Data

Package: 2024-A6 (SMD)  
 Molding compound meets UL 94 V-0 flammability rating

### Maximum Ratings (T<sub>a</sub>=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS											
			52A	53A	54A	55A	56A	58A	510A	515A	520A			

Peak surge rectified output current



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**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

PARAMETER	SYMBOL	UNIT	SS							
			52A	53A	54A	55A	56A	58A	510A	515A
Thermal resistance	$R_{J-A}$	/W	60 <sup>(1)</sup>							
	$R_{J-L}$		22 <sup>(1)</sup>							

Note

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

## Characteristics (Typical)

FIG1 Io-TL Curve

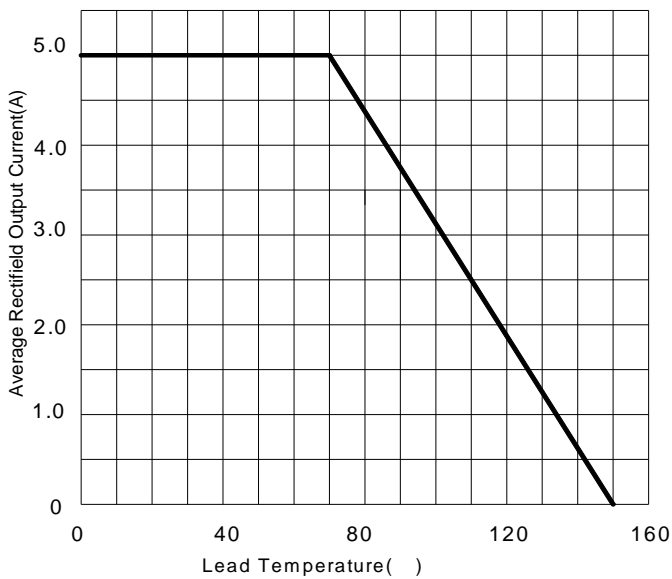


FIG2: Surge Forward Current Capability

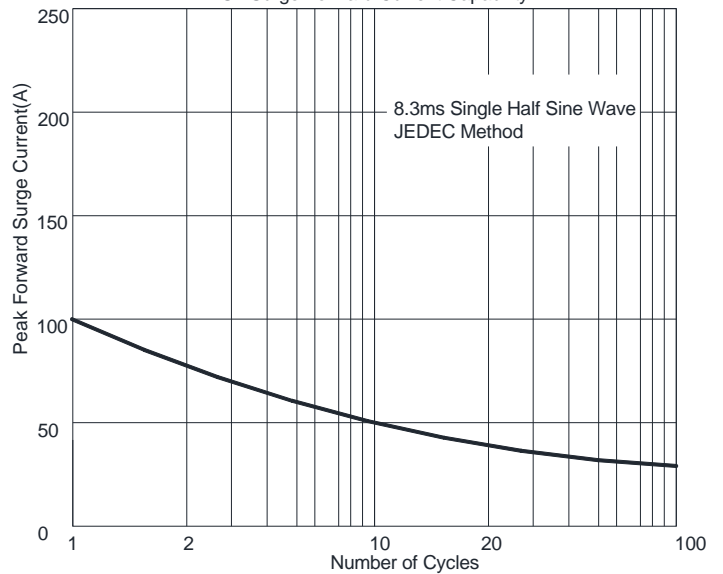
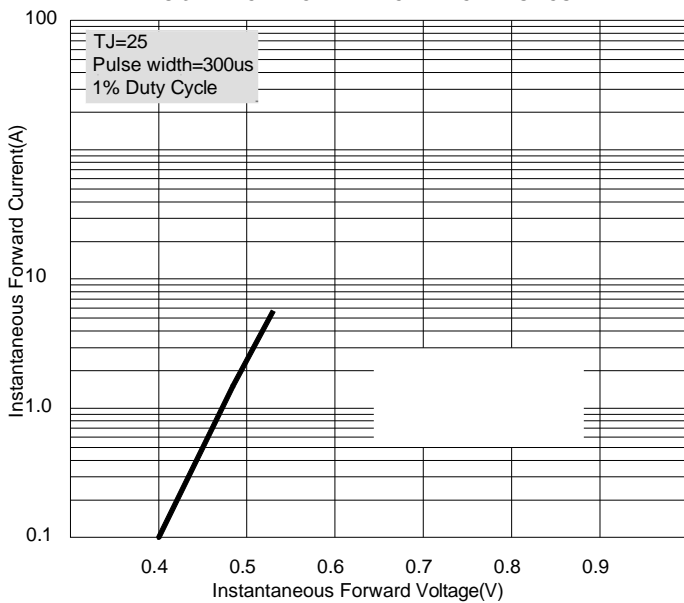


FIG.3: TYPICAL FORWARD CHARACTERISTICS





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### Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS52A-SS520A	F1	Approximate 0.059	5000	/	80000	13" reel
SS52A-SS520A	F2	Approximate 0.059	7500	/	120000	13" reel
SS52A-SS520A	F3	Approximate 0.059	7500	/	60000	13" reel
SS52A-SS520A	F4	Approximate 0.059	1800	7200	57600	7" reel
SS52A-SS520A	F5	Approximate 0.059	2000	8000	64000	7" reel
SS52A-SS520A	F6	Approximate 0.059	5000	/	100000	13" reel



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### Disclaimer

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