





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

PARAMETER	SYMBOL	SR52F	SR53F	SR54F	SR55F	SR56F	UNITS
Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
DC Blocking Voltage	V <sub>R</sub>	20	30	40	50	60	V
Average Forward Current	I <sub>F(AV)</sub>	5.0					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>fsm</sub>	100					А
Forward Voltage at 5.0A	V <sub>F</sub>	0.55 0.7			V		
DC Reverse Current at Rated T <sub>j</sub> =25°C DC Blocking Voltage	I <sub>R</sub>	0.1					mA
Typical Junction capacitance VR=4V,1MHz	C'	235			190		pF
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)	${f R}_{_{ heta JL}} \ {f R}_{_{ heta JA}}$	17 135				°C / W	
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>stg</sub>	-55 to +150				°C	

#### NOTES :

1.Mounted on an FR4 PCB, single-sided copper, with 48cm<sup>2</sup>copper pad area.

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





### **RATING AND CHARACTERISTIC CURVES**



### Fig.1 Forward Current Derating Curve



#### **Fig.3 Typical Reverse Characteristics**





**Fig.2 Typical Junction Capacitance** 



#### **Fig.4 Typical Reverse Characteristics**









- Packing information
  - T/R 5K per 13" plastic Reel





Part No\_packing code\_Version SR52F\_R2\_00001

### For example :

### RB500V-40\_R2\_00001



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	
T/B	Α	N/A	0	HF	0	serial number	
T/R	R	7"	1	RoHS	1	serial number	
B/P	В	13"	2				
T/P	т	26mm	X				
TRR	S	52mm	Y				
TRL	L	PBCU	U				
FORMING	F	PBCD	D				





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