

SR520 ~ SR560

Voltage 20 ~ 60 V 5.0 Amp Schottky Barrier Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 1.10 grams (approximately)

ORDER INFORMATION

Part Number	Туре		
SR520~SR560	Lead (Pb)-free		
SR520-C~SR560-C	Lead (Pb)-free and Halogen-free		

REF. Milli neter Min. Max. A 25.4 (TYP)

DO-27

REF.	Milli neter			
KEF.	Min.	Max.		
Α	25.4 (TYP)			
В	7.20	9.53		
С	4.80	5.60		
D	1.10	1.32		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise s pecified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

Parameters		Symbol	Part Number				I Imia
			SR520	SR530	SR540	SR560	Unit
Recurrent Peak Reverse Voltage		V_{RRM}	20	30	45	60	V
Working Peak Reverse Voltage		V_{RWM}	20	30	45	60	V
DC Blocking Voltage		V _{DC}	20	30	45	60	V
Average Forward Rectified Current 1		I _F	5				Α
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	100				А
Instantaneous Forward Voltage @5A		V _F	0.52 0.65			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	T _A =25℃	I-	0.5				- mA
	T _A =100℃	l _R	20				
Typical Junction Capacitance ¹		CJ	380				pF
Typical Thermal Resistance from Junction to Ambient		$R_{\theta JA}$	28				€W.
Typical Thermal Resistance from Junction to Case		R _{θJC}	12				€W.
Typical Thermal Resistance from Junction to Lead		$R_{\theta JL}$	15				€/M
Operating & Storage Temperature		T _J ,T _{STG}	-50~150, -65~175				C

Notes:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0V D.C $\,$
- 2. Pulse test: 300us pulse width, 1% duty cycle.

http://www.SeCoSGmbH.com/

Any changes of specification will not be informed individually.

18-Oct-2017 Rev. F Page 1 of 2



SR520 ~ SR560

Voltage 20 ~ 60 V 5.0 Amp Schottky Barrier Rectifiers

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

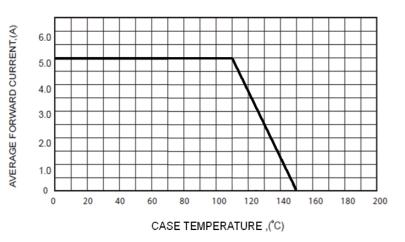


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

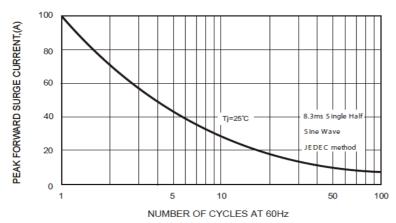


FIG.4-TYPICAL JUNCTION CAPACITANCE

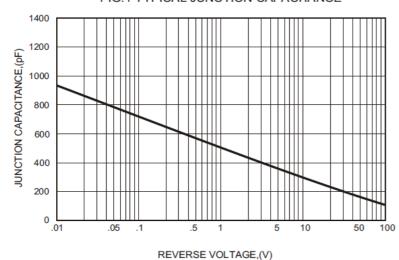


FIG.2-TYPICAL FORWARD

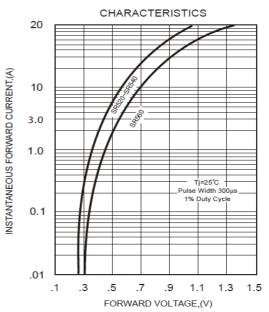
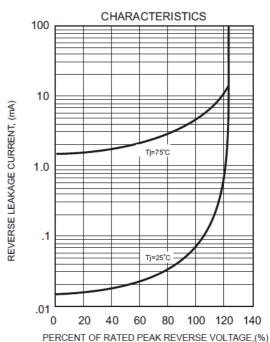


FIG.5 - TYPICAL REVERSE



http://www.SeCoSGmbH.com/

Any changes of specification will not be informed individually