



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

SK52 THRU SK510

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- High Current Capability With Low Forward Voltage
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 18°C/W Junction To Lead

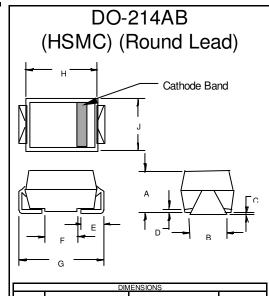
MCC		Maximum	Maximum	Maximum
Part	Device	Recurrent RMS		DC
Number	Marking	Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK52	SK52	20V	14V	20V
SK53	SK53	30V	21V	30V
SK54	SK54	40V	28V	40V
SK545	SK545	45V	31.5V	45V
SK55	SK55	50V	35V	50V
SK56	SK56	60V	42V	60V
SK58	SK58	80V	56V	80V
SK510	SK510	100V	70V	100V

Hectrical Characteristics @25℃ Lhless Ωherwise Specified

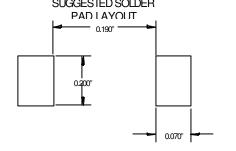
Average Forward	I _{F(AV)}	5.0A	T ₁ = 120°C
Current	1 (AV)		0
Peak Forward Surge	I _{FSM}	150A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
SK52- 545	V_{F}	.55V	$I_{FM} = 5.0A;$
SK55- 56		.75V	$T_J = 25^{\circ}C^*$
SK58- 510		.85V	
Maximum DC			
Reverse Current At	I_{R}	1.0mA	$T_J = 25^{\circ}C$
Rated DC Blocking		20mA	$T_{J} = 100^{\circ}C$
Voltage			
Typical Junction	CJ	200pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 200 usec, Duty cycle 2%
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

5 Amp Schottky Rectifier 20 to 100 Volts



Α	.200	.214	5.08	5.43	
В	.177	.203	4.70	5.30	
C	.002	.005	.05	.13	
D		.02		.51	
Е	.047	.056	1.20	1.42	
F	.168	.179	4.27	4.55	
G	.309	.322	7.85	8.18	
H	.239	.243	6.08	6.18	
J	.234	.240	5.95	6.10	
SUGGESTED SOLDER PAD I AYOUT 0.190"					



SK52 thru SK510



Micro Commercial Components

Figure 1 Typical Forward Characteristics

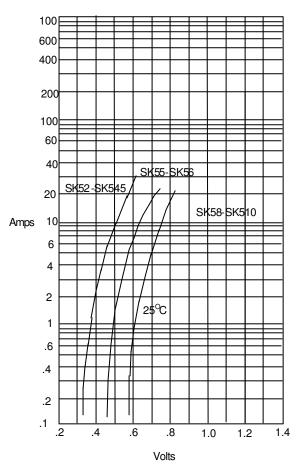
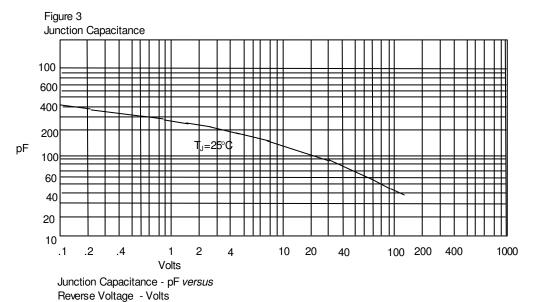


Figure 2 Forward Derating Curve 5 3 Amps 2 Single Phase, Half Wave 60Hz Hesistive or Inductive 0 60 80 180 100 120 140 160 °C

> Average Forward Rectified Curre nt - Amperes versus Ambient Temperature - °C

Instantaneous Forward Current - Amperes versus

Instantaneous Forward Voltage - Volts



SK52 thru SK510

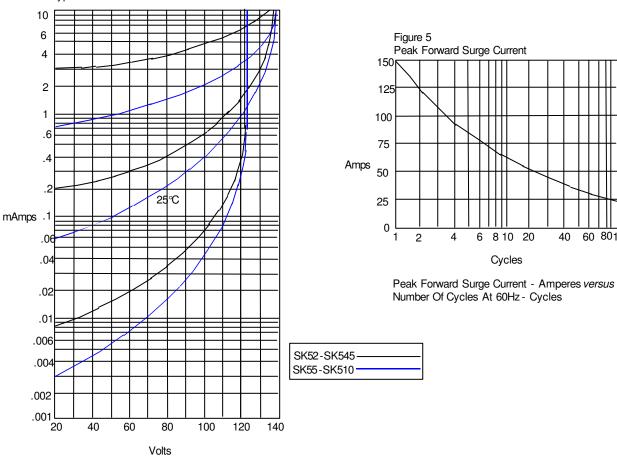


20 8 10

Cycles

60 80100

Figure 4 Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel1.5Kpcs/Reel

IMPORTANT NOTICE

Micro Commercial Components Corp. reserve the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.