

ZIBO MICRO COMMERCIAL COMPONENTS CORP.



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SK52A-L THRU SK510A-L

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Current Capability With Low Forward Voltage
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 16°C/W Junction To Lead

Part	Device	Maximum	Maximum	Maximum
Number	Marking	Recurrent	RMS	DC
		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
SK52A-L	SK52A	20V	14V	20V
SK53A-L	SK53A	30V	21V	30V
SK54A-L	SK54A	40V	28V	40V
SK55A-L	SK55A	50V	35V	50V
SK56A-L	SK56A	60V	42V	60V
SK58A-L	SK58A	80V	56V	80V
SK510A-L	SK510A	100V	70V	100V

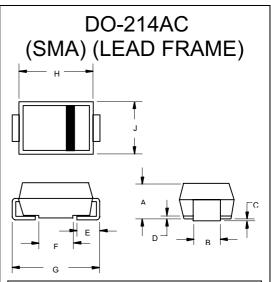
Electrical Characteristics @ 25°C Unless Otherwise Specified

	and the opening		
Average Forward Current	$I_{F(AV)}$	5.0A	T _A = 120°C
Peak Forward Surge	I _{FSM}	100A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
SK52A-54A	V_{F}	.55V	$I_{FM} = 5.0A;$
SK55A-56A		.75V	T _J = 25°C*
SK58A-510A		.85V	
Maximum DC			
Reverse Current At	I_R	1mA	T _{.1} = 25°C
Rated DC Blocking		20mA	T _J = 100°C
Voltage			.,
Typical Junction	С	200pF	Measured at
Capacitance		,	1.0MHz, V _R =4.0V

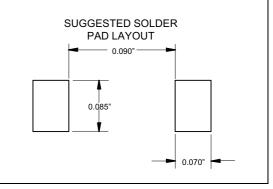
^{*}Pulse test: Pulse width 200 usec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

5 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.079	.096	2.00	2.44			
В	.050	.064	1.27	1.63			
С	.002	.008	.05	.20			
D		.02		.51			
Е	.030	.060	.76	1.52			
F	.065	.091	1.65	2.32			
G	.189	.220	4.80	5.59			
Н	.157	.181	4.00	4.60			
J	.090	.115	2.25	2.92			

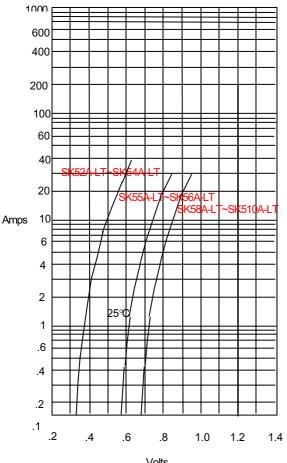




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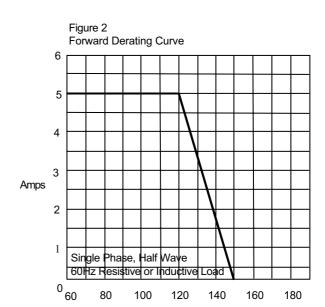
SK52A-L thru SK510A-L

Typical Forward Characteristics



Volts

Instantaneous Forward Current - Amperes versus

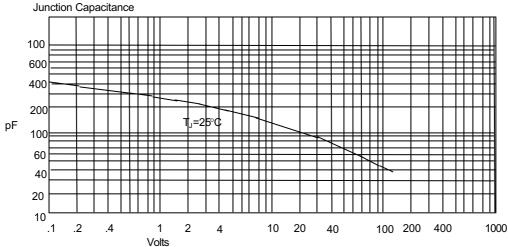


Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

°C



Instantaneous Forward Voltage - Volts



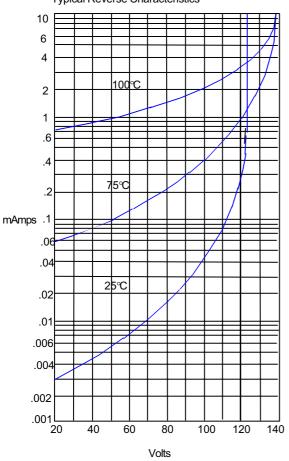
Junction Capacitance - pF versus Reverse Voltage - Volts

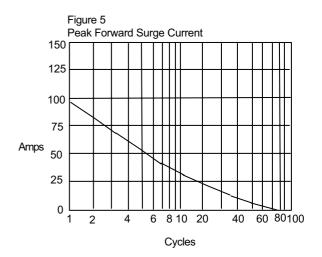


SK52A-L thru SK510A-L

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Figure 4
Typical Reverse Characteristics





Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

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



Ordering Information:

Device	Packing		
SK52A-LTP~SK510A-LTP	Tape&Reel: 5Kpcs/Reel		

Note: Adding "-HF" suffix for halogen free, eg. SK52A-LTP-HF~SK510A-LTP-HF

LIFE SUPPORT

ZBMCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of ZiBo Micro Commercial Components Corp.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuineparts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.