



ZIBO MICRO COMMERCIAL  
COMPONENTS CORP.



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**SK5150L**  
**SK5200L**

## Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- High Current Capability
- Low power loss, high efficiency.
- Guardring for overvoltage protection
- High surge capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- 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  
55°C/W Junction To Ambient

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK5150L	SK5150	150V	105V	150V
SK5200L	SK5200	200V	140V	200V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

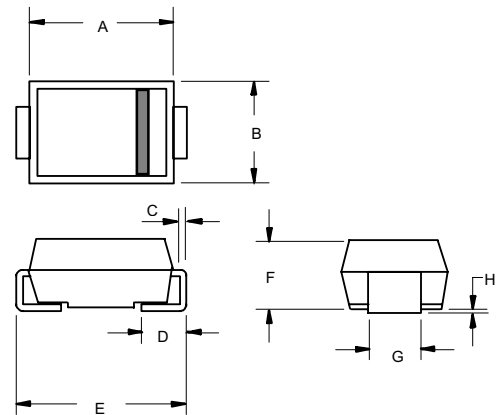
Average Forward Current	$I_{F(AV)}$	5.0A	$T_A = 120^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.87V .90V	$I_F = 5.0A; T_J = 25^\circ\text{C}$ $I_F = 5.0A; T_J = 25^\circ\text{C}$
SK5150L SK5200L			
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	1.0mA 20mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	200pF	Measured at 1.0MHz, $V_R = 4.0V$

\*Pulse test: Pulse width 200  $\mu\text{sec}$ , Duty cycle 2%

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

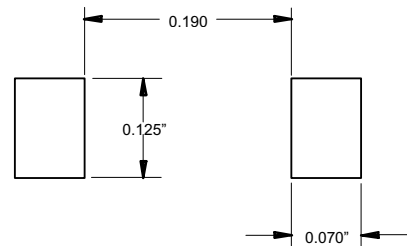
**5 Amp Schottky Rectifier**  
**150~200 Volts**

DO-214AB  
(SMC) (LEAD FRAME)



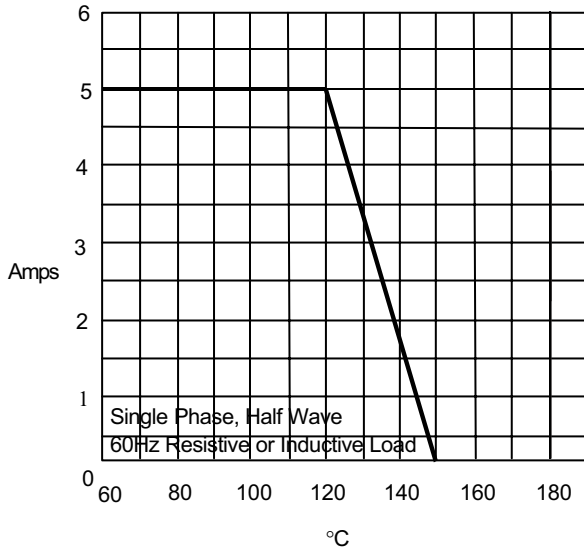
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.260	.280	6.60	7.11	
B	.220	.245	5.59	6.22	
C	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.305	.320	7.75	8.13	
F	.079	.103	2.00	2.62	
G	.108	.128	2.75	3.25	
H	.002	.008	0.050	0.203	

SUGGESTED SOLDER PAD LAYOUT



## Rating and characteristic curves

FIG.1- FORWARD Derating Curve



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

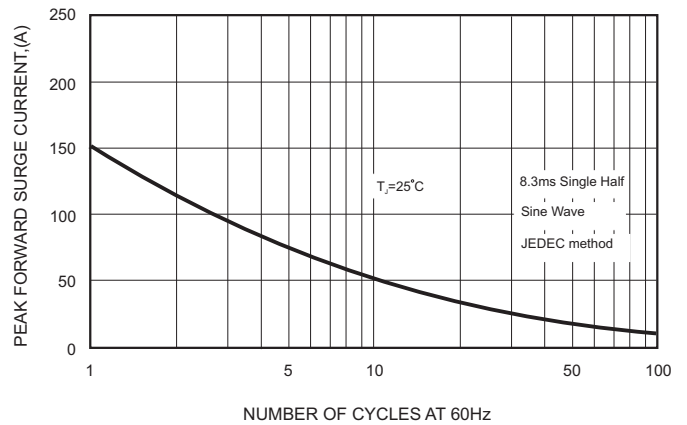
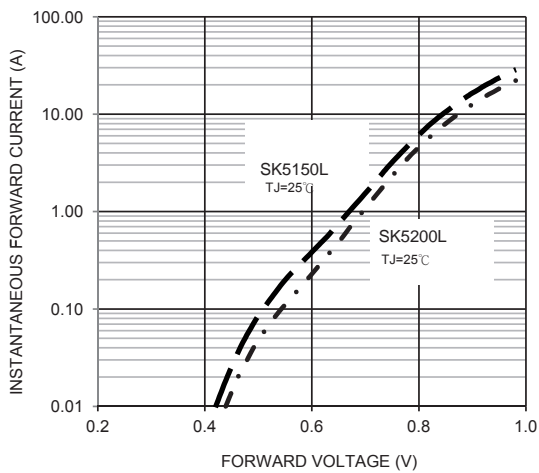
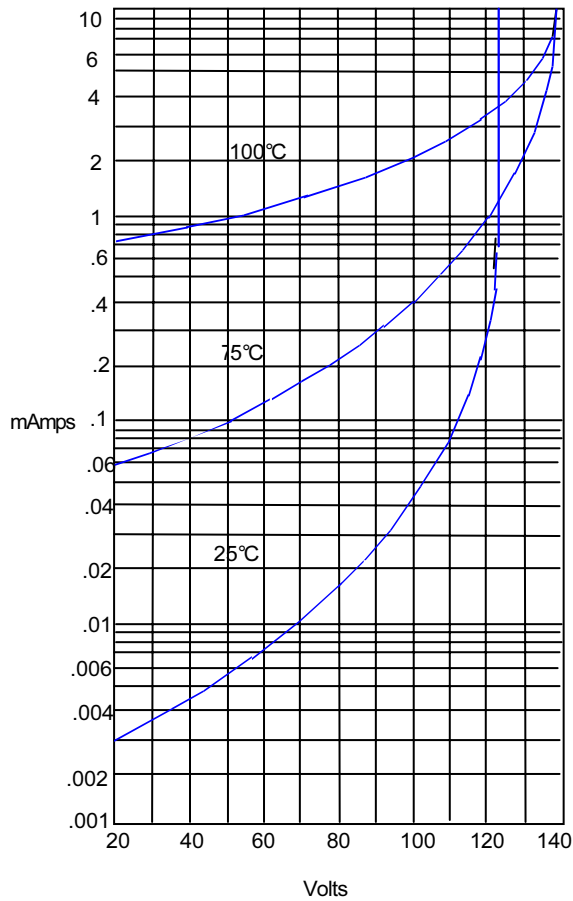
 FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
 SURGE CURRENT


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

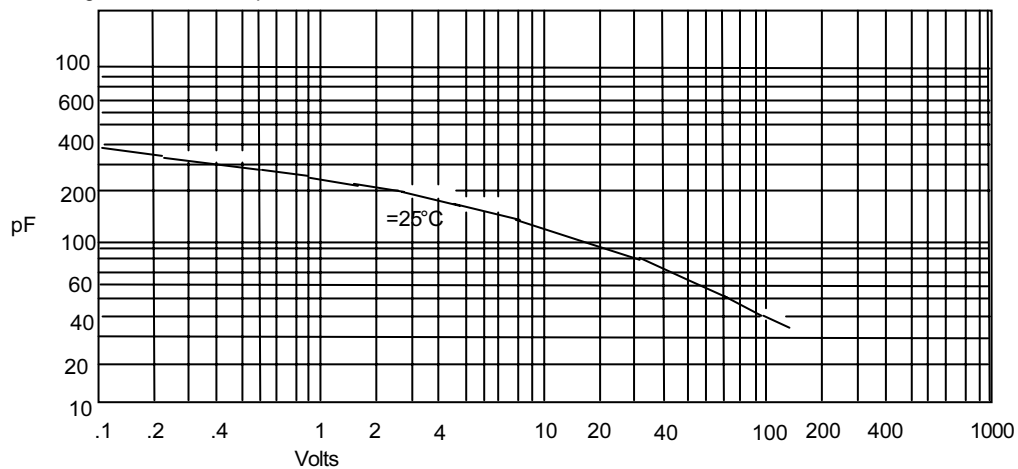


**Rating and characteristic curves**

 Figure 4  
 Typical Reverse Characteristics


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

Figure 5 Junction Capacitance



Junction Capacitance - pF *versus*  
 Reverse Voltage - Volts



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-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.

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