Zibo Seno Electronic Engineering Co., Ltd.



SK540D-SK5200D

5.0 A SCHOTTKY BARRIER DIODE

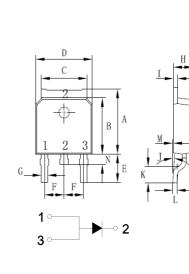
TO-252/DPAK

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: TO-252/DPAK, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version



TO-252 (DPAK)										
Unit:mm										
DIM	MIN	MAX								
А	6.85	7.25								
В	5.90	6.30								
С	5.13	5.53								
D	6.40	6.80								
Е	2.90	3.30								
F	2.19	2.39								
G	0.45	0.85								
Н	2.20	2.40								
Ι	0.41	0.61								
J	0°	8°								
К	1.45	1.85								
L	0.41	0.61								
М	0.00	0.12								
Ν	0.60	1.00								

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SK 540D	SK 545D	SK 550D	SK 560D	SK 580D	SK 5100D	SK 5150D	SK 5200D	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	40	45	50	60	80	100	150	200	V
RMS Reverse Voltage	VR(RMS)	28	31	35	42	56	70	105	140	V
Average Rectified Output Current $@T_L = 75^{\circ}C$ (Note 1)	lo	5.0							А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150						A		
Forward Voltage @I _F = 5A	Vfm	0.55 0.70 0.85 0.92				2	V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I RM	0.1 20							mA	
Typical Junction Capacitance (Note 2)	Cj	350 280 200			pF					
Typical Thermal Resistance (Note 1)	RθJA	15					°C/W			
Operating and Storage Temperature Range	Tj, Ts⊤g	-55 to +125 -55 to +150						°C		

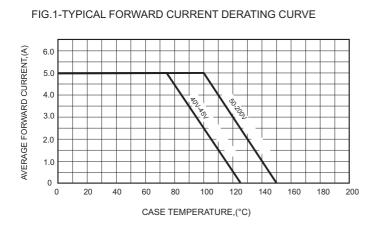
Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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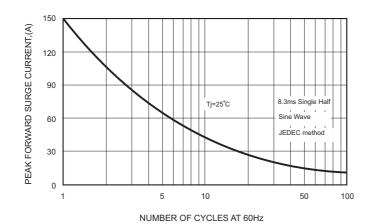


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RATING AND CHARACTERISTIC CURVES

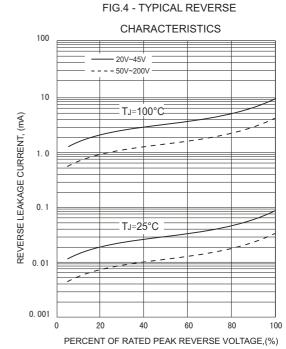






CHARACTERISTICS 50 INSTANTANEOUS FORWARD CURRENT, (A) 10 3.0 1.0 Tj=25°C Pulse Width 300us 1% Duty Cycle 0.1 .01 .3 .7 .9 1.3 1.5 .5 1.1 1 FORWARD VOLTAGE,(V)

FIG.2-TYPICAL FORWARD



SK540DP-SK5200D