

SK520D~SK5200D

SCHOTTKY BARRIER RECTIFIERS

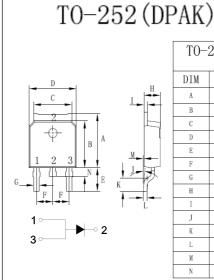
VOLTAGE20 to 200 VoltsCURRENT5 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For through hole applications
- · Low profile package
- · Built-in strain relief
- Low power loss, High efficiency
- · High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS

MECHANICALDATA

- Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marking



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°						
K	1.45	1.85						
L	0.41	0.61						
М	0.00	0.12						
Ν	0.60	1.00						

MAXIMUM RATINGS

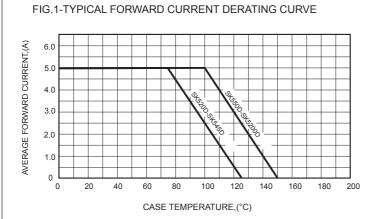
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SK 520D	SK 540D	SK 545D	SK 550D	SK 560D	SK 580D	SK 5100D	SK 5150D	SK 5200D	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	20	40	45	50	60	80	100	150	200	v
Maximum RMS Voltage	V _{rms}	14	28	31.5	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	45	50	60	80	100	150	200	V
Maximum Average Forward (See Figure 1)	I _{F(AV)}	v) 5						A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{fsm}	150							А		
Maximum Forward Voltage at 5.0A per leg	V _F	0.55		0.7	0 0.85		0.90	0.92	v		
Maximum DC Reverse Current at T_=25°C Rated DC Blocking Voltag T_=100°C	I _R	0.5 20							mA		
Typical Thermal Resistance Note 1	tance Note 1 R _{eJC} 15						°C / W				
Operating Junction and Storage Temperature Range	T _j ,T _{stg}	-55 to +125			-55 to +150						°C

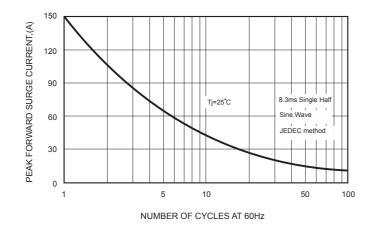
Note 1: Mounted on FR-4 PCB Copper, minimum recommended pad layout



RATING AND CHARACTERISTIC CURVES







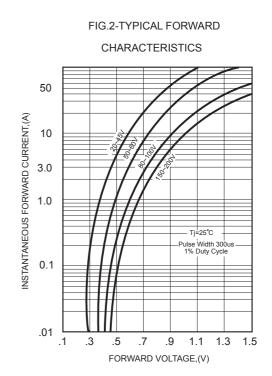
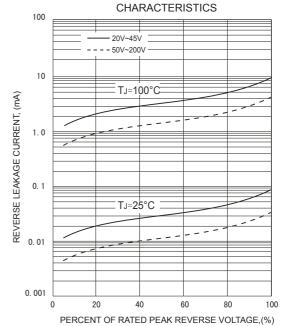


FIG.4 - TYPICAL REVERSE





Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from DIYI.
- DIYI reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- DIYI disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- DIYI does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.
 DIYI makes no representation or warranty that such applications will be suitable for the

specified use without further testing or modification.

• The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace

machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify DIYI for any damages resulting from such improper use or sale.

• Since DIYI uses lot number as the tracking base, please provide the lot number for tracking when complaining.