

Standard power diode

SK8D

FEATURES

- Low Forward Voltage Drop
- · High inrush current capability
- Extremely low reverse leakage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Input rectifier
- · Bypass diode in PFC
- · Snubber circuit

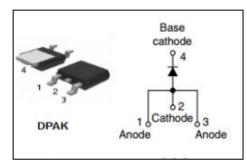


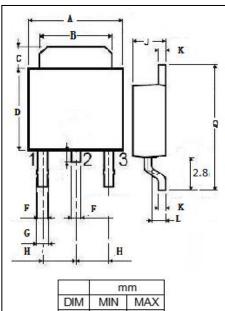
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	800	V
I _{F(AV)}	Average Forward Current	8	A
IFSM	Nonrepetitive Peak Surge Current	150	А
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

HERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Thermal Resistance,Junction to Case	2.0	°C/W





37. 3		
DIM	MIN	MAX
Α	6.4	6.6
В	5.2	5.4
С	1.3	1.7
D	5.2	5.7
F	0.6	0.7
G	0.65	0.75
Н	2.1	2.5
J	2.1	2.4
K	0.4	0.6
L	0.9	1.1
Q	9.5	10



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ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Instantaneous Forward Voltage	I _F = 8A ;T _j =25℃ I _F = 8A ;T _j =150℃	1.8 1.8	V
IR	Instantaneous Reverse Current	V _R = 800V; T _j =25°C V _R = 800V; T _j =150°C	0.05 0.5	mA



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