



Schottky Barrier Rectifier

FEATURES

- Low forward voltage drop
- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- For use as Bypass diode in Solar application.
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



R-6





MECHANICAL DATA

Case: R-6

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Weight: 1.6 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHA	RACTERIS	TICS (T _A =25°C unless otherwise noted)	
PARAMETER	SYMBOL	SK15H45	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	31	V
Maximum DC blocking voltage	V _{DC}	45	V
Maximum average forward rectified current	I _{F(AV)}	15	Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	340	Α
Maximum instantaneous forward voltage (Note 1) I _F =15A	V _F	0.56	V
Maximum DC reverse current @T _J =25 °C at rated DC blocking voltage @T _J =100 °C	I _R	0.15 20	mA
Typical thermal resistance	$R_{ heta JC} \ R_{ heta JA}$	10 30	°C/W
Junction temperature range - in DC forward mode	T _J	<=200	оС
Storage temperature range	T _{STG}	- 55 to +175	οС

Note 1: Pulse test with PW=300µs, 1% duty cycle

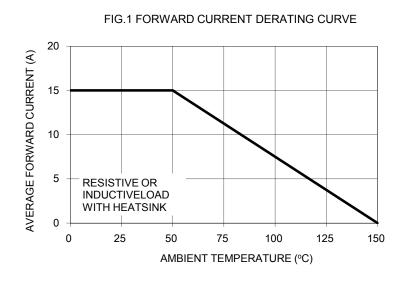


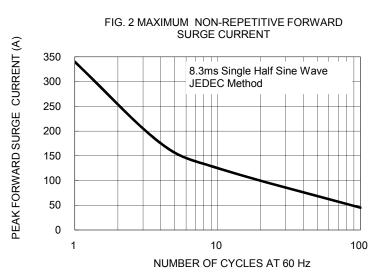
ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
	QUALIFIED		CODE		
		A0		R-6	700 / Ammo box
SK15H45	Prefix "H"	R0	Suffix "G"	R-6	1,000 / 13" Paper reel
		B0		R-6	400 / Bulk packing

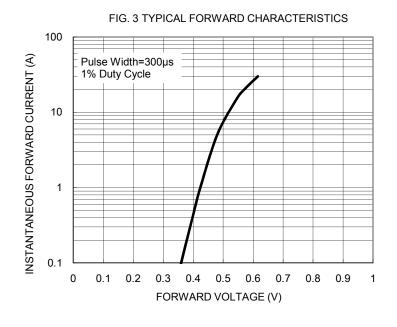
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
SK15H45 A0	SK15H45		A0			
SK15H45 A0G	SK15H45		A0	G	Green compound	
SK15H45HA0	SK15H45	Н	A0		AEC-Q101 qualified	

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







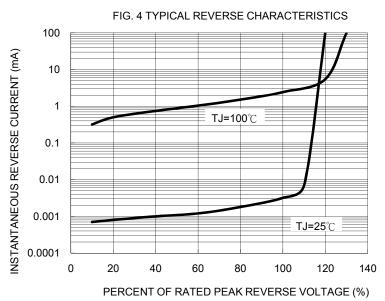




FIG. 5 TYPICAL JUNCTION CAPACITANCE

10000

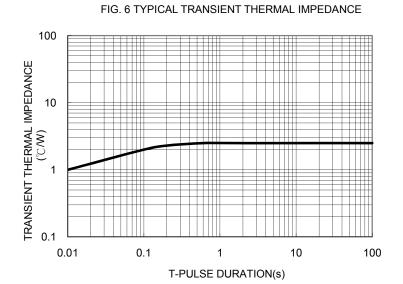
(Jd)
1000

1000

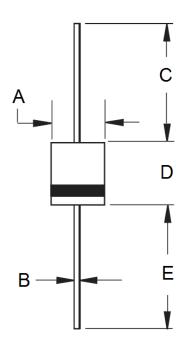
0.1

1 10 100

REVERSE VOLTAGE (V)



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
Α	6.80	7.20	0.268	0.283
В	1.20	1.30	0.047	0.051
С	25.40	-	1.000	-
D	8.60	9.10	0.339	0.358
E	25.40	-	1.000	-

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code







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Document Number: DS_D1310004 Version: E13