

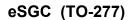
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10A,60V Schottky Barrier Rectifier

Features

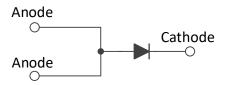
- Low leakage current
- Low forward voltage, low power loss
- High surge current
- Plastic package has underwriters Laboratory
 Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21
- AEC-Q101 qualified available





Applications

- SMPS
- Adapter
- Server Power



Mechanical Data

- Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)			
Parameter	Symbol	AWSS10H6	Unit
Maximum repetitive peak reverse voltage	VRRM	60	V
Maximum RMS voltage	VRMS	42	V
Maximum DC blocking voltage		60	V
Maximum average forward	lF(AV)	10	Α
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode		200	Α
Operating junction temperature range	TJ	-55 to +175	°C
Storage temperature range	Тѕтс	-55 to +175	°C



Electrical Specifications (TA=25°C unless otherwise noted)					
Parameter	Symbol	Test Conditions	Тур	Max	Unit
Forward Drop Voltage (Note1)	VF	IF=10A, TJ =25℃	0.66	0.71	
		IF=10A, TJ =125℃	-	0.66	V
Reverse leakage current @VR (Note2)	lR	TJ =25℃	-	20	uA
		TJ =100℃	-	5	mA

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)			
Parameter	Symbol	Тур	Unit
Thermal Resistance, Junction to Case	Rejc	15	°C /W
Thermal Resistance, Junction to Ambient	Røja	40	°C /W

Note:

- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

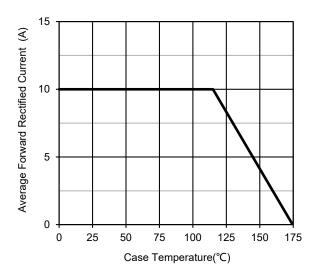


Fig.1 – Forward Current Derating Curve

11

25°C

105°C

125°C

7

150°C

150°C

150°C

150°C

150°C

150°C

150°C

Fig.3 - Typical Forward Voltage Characteristics

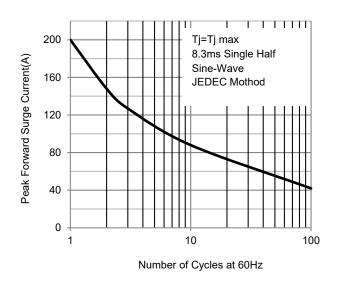


Fig.2 - Maximum Non-Repetitive Surge Current

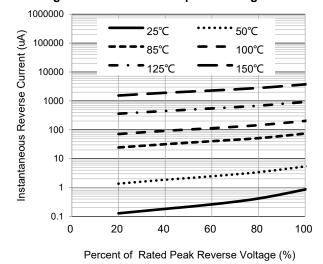
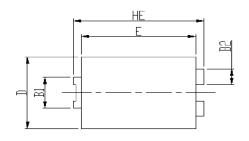


Fig.4 - Typical Reverse Current Characteristics

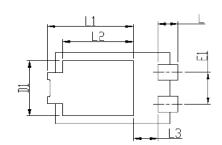


Package Outline Dimensions (Unit: millimeters)

eSGC (TO-277)

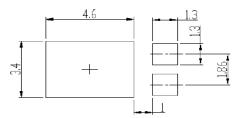






DIM	Unit: mm		Unit: inch	
DIIVI	MIN	MAX	MIN	MAX
HE	6.4	6.6	0.252	0.260
Е	5.6	5.8	0.220	0.228
D	4.1	4.3	0.161	0.169
B1	1.7	1.9	0.067	0.075
B2	0.8	1	0.031	0.039
Α	1.05	1.2	0.041	0.047
С	0.3	0.4	0.012	0.016
L	0.85	1.1	0.033	0.043
L1	4.2	4.4	0.165	0.173
L2	3.52Typ		0.13	9Тур
L3	1.1	1.4	0.043	0.055
D1	3	3.3	0.118	0.130
E1	1.86Typ		0.07	3Тур

Soldering footprint



Revision History

Document Version	Date of release	Description of changes
Rev.A	2023.10.18	Preliminary Datasheet



AWSS10H6

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