

DG1S6

Schottky Barrier Diodes 60V, 1A

Feature

- Ultra-small SMD
- Ultra thin PKG
- · Low V_F
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): G1F

Package (JEDEC Code): DO-219AB similar

Package (JEITA Code): SC-109



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V_{RRM}		60	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tl=128°C	1	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Ta=64°C *	0.7	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Ta=40°C *	0.5	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C		А

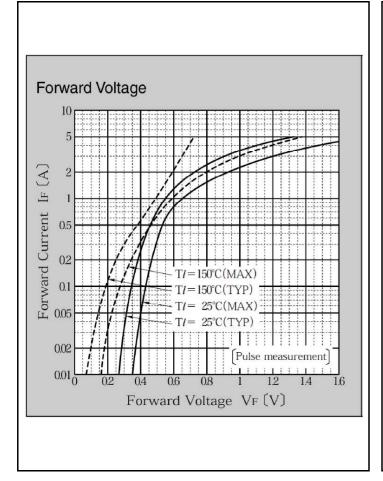
^{* :} See the original Specifications

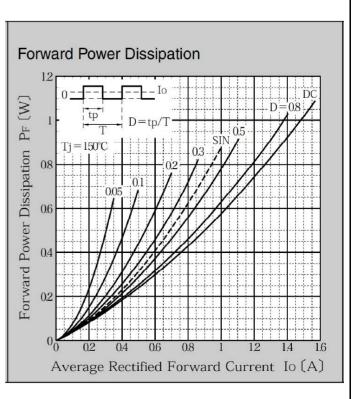
Electrical Characteristics (unless otherwise specified : TI=25°C)

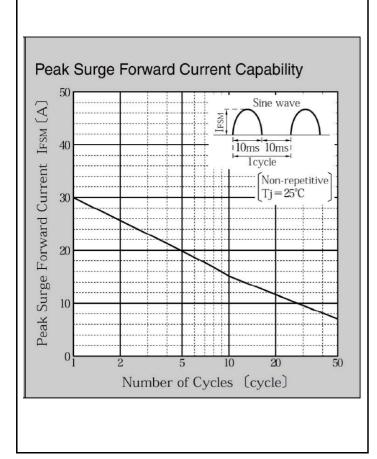
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V _F	IF=0.7A, Pulse measurement			0.58	V
Reverse current	I _R	VR=60V, Pulse measurement			1	mA
Total capacitance	Ct	f=1MHz, VR=10V		32		pF
Thermal resistance	Rth(j-l)	Junction to lead, On alumina substrate *			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *			70	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On paper phenol substrate *			120	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On paper phenol substrate *			210	°C/W

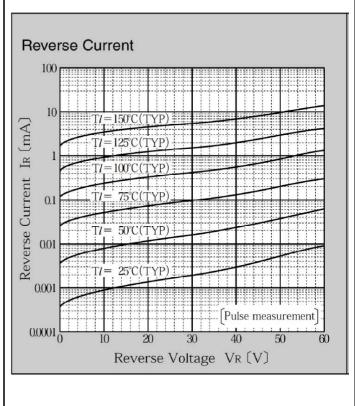
^{*} :See the original Specifications

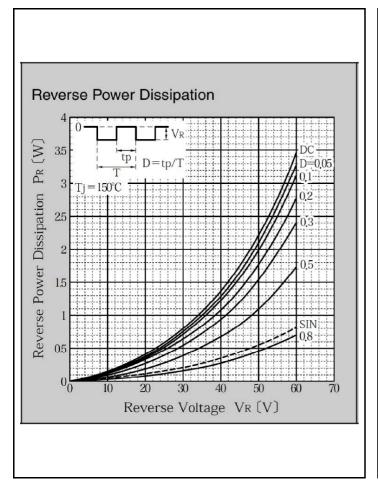
CHARACTERISTIC DIAGRAMS

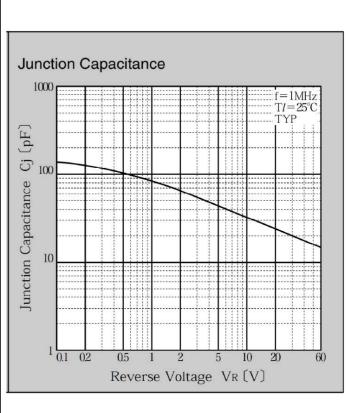


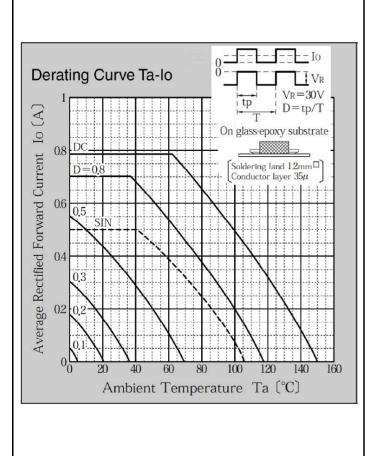


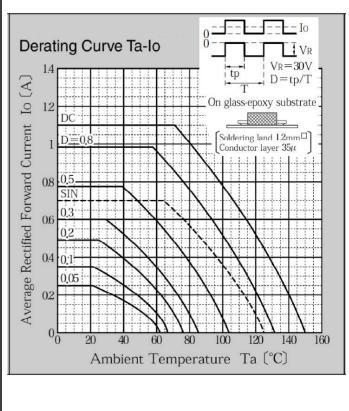


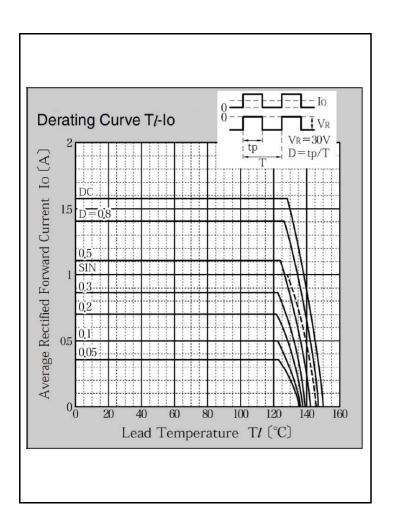








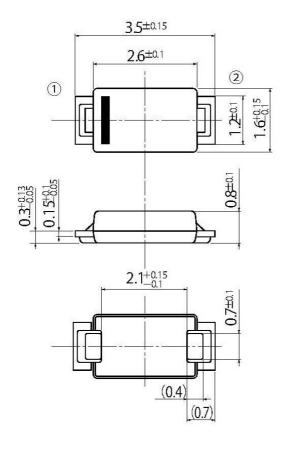




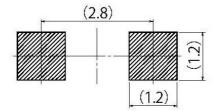
scale: 10/1

B1

JEDEC Code	DO-219AB similar		
JEITA Code	SC-109		
House Name	G1F		







Referential Soldering Pad

[•] Optimize soldering pad to the board design and soldering condition.

Notes

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