

DG1H3

Schottky Barrier Diodes 30V, 1A

Feature

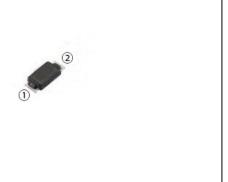
- Ultra-small SMD
- Ultra thin PKG
- Low V_F
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): G1F

Package (JEDEC Code): DO-219AB similar

Package (JEITA Code): SC-109



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 125	°C
Junction temperature	Tj		125	°C
Repetitive peak reverse voltage	V _{RRM}		30	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tl=113°C ※	1	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Ta=46°C ※	0.7	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	20	Α

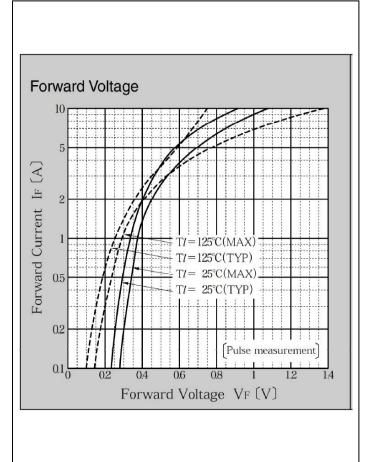
[※] ∶See the original Specifications

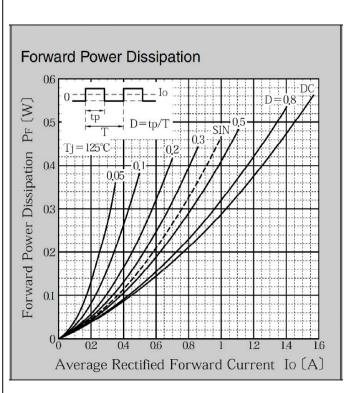
Electrical Characteristics (unless otherwise specified : Tl=25°C)

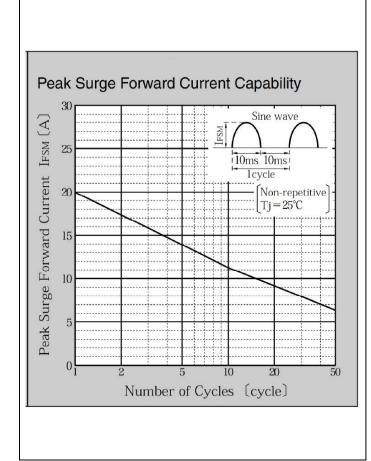
Item	Symbol	Conditions	Ratings			11
			MIN	TYP	MAX	Unit
Forward voltage	V _F	IF=0.7A, Pulse measurement			0.36	٧
Forward voltage	V _F	IF=0.2A, Pulse measurement			0.3	٧
Reverse current	I _R	VR=30V, Pulse measurement			1	mA
Total capacitance	Ct	f=1MHz, VR=10V		37		pF
Thermal resistance	Rth(j-l)	Junction 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

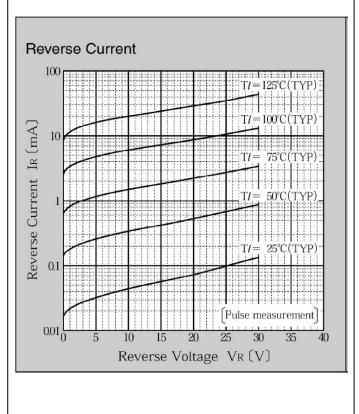
[※] ∶See the original Specifications

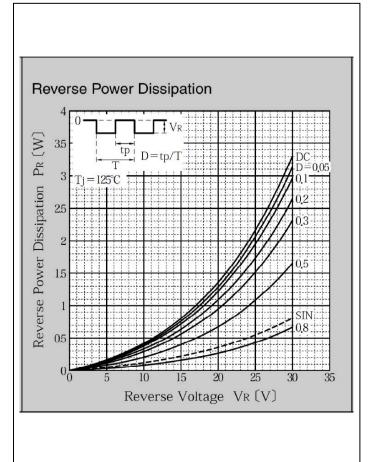
CHARACTERISTIC DIAGRAMS

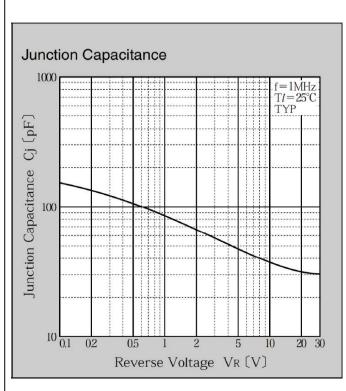


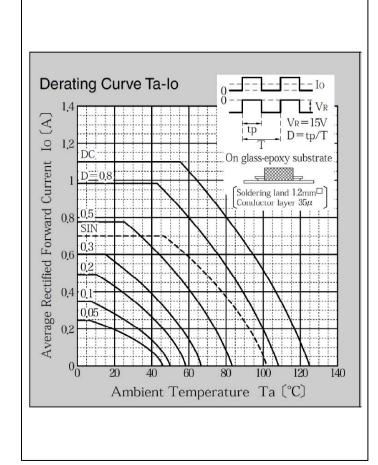


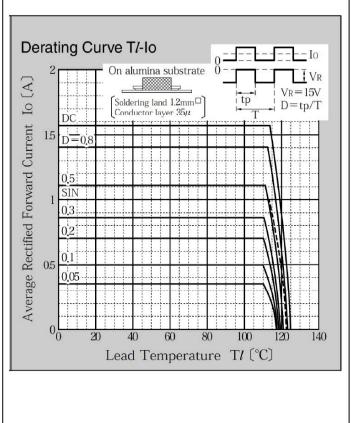










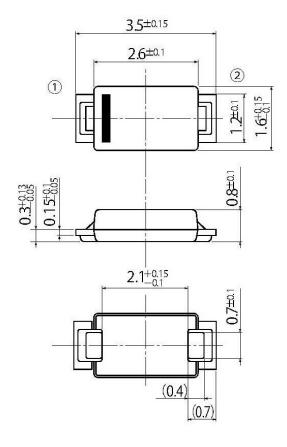


unit:mm

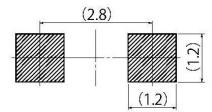
scale: 10/1

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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(Special applications)

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