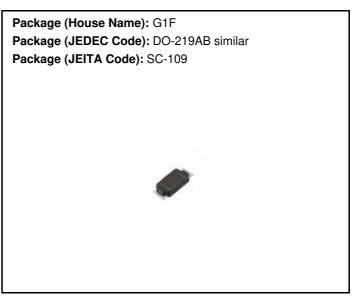
# DG1H3

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



## Equivalent circuit

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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 125	°C
Junction temperature	Tj		125	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		30	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=113°C *	1	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Ta=46°C *	0.7	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	20	А

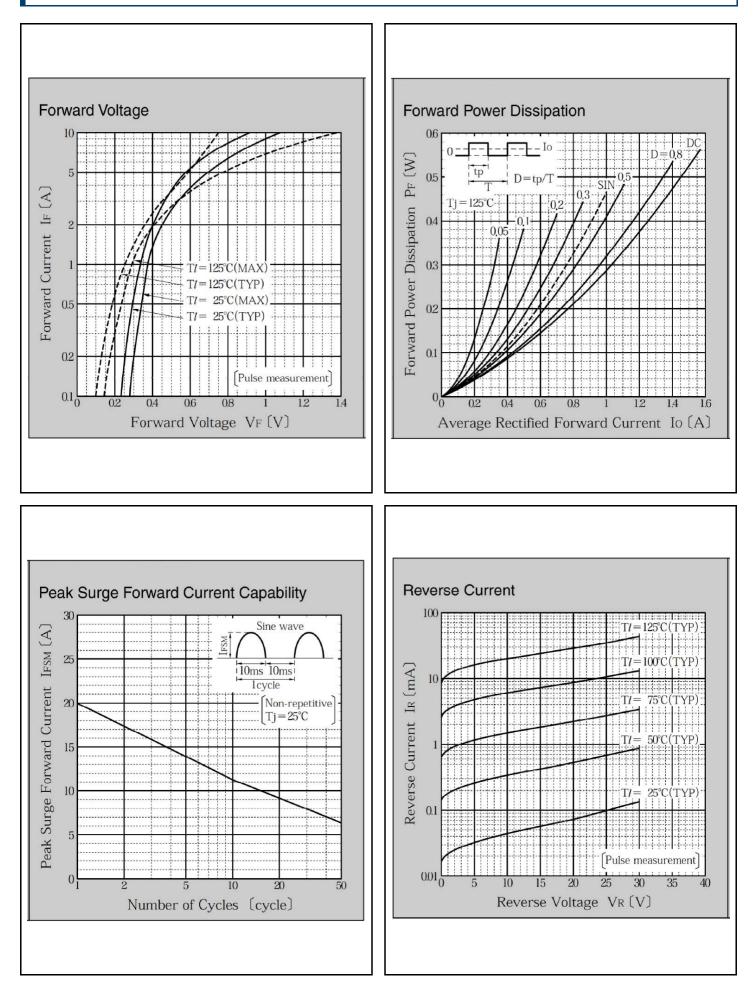
\* : See the original Specifications

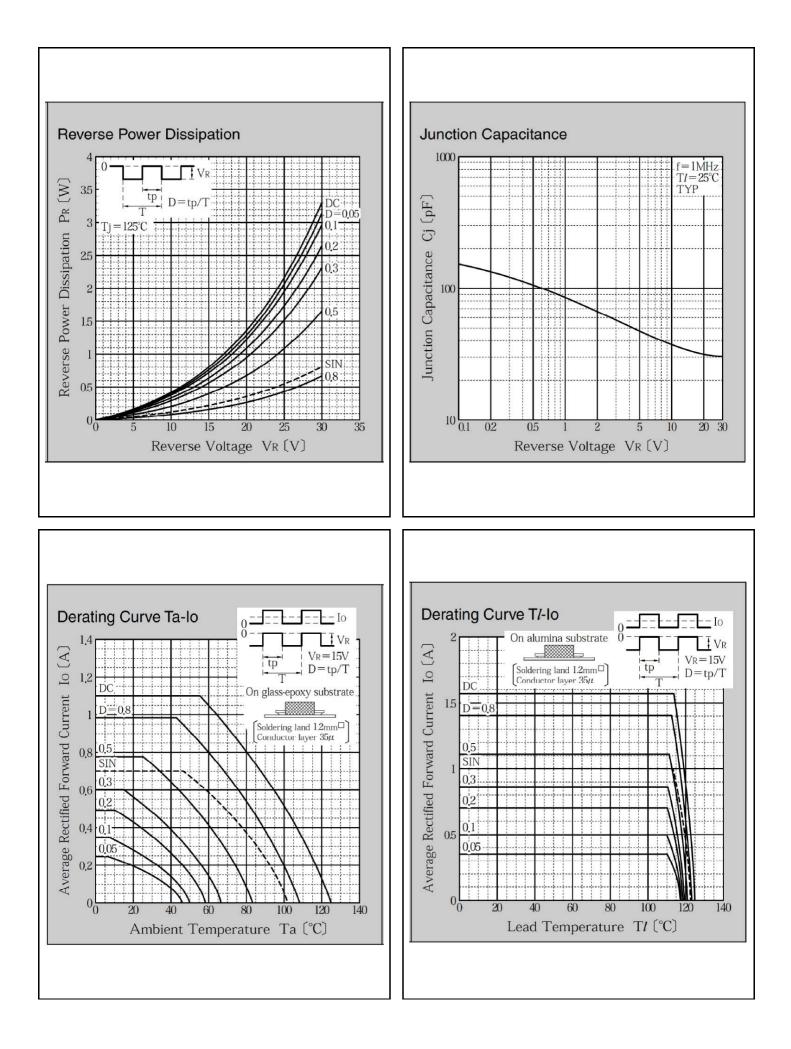
<b>Electrical Characteristics</b>	(unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings			Unit
	Symbol		MIN	ТҮР	MAX	onit
Forward voltage	V <sub>F</sub>	IF=0.7A, Pulse measurement			0.36	V
Forward voltage	V <sub>F</sub>	IF=0.2A, Pulse measurement			0.3	V
Reverse current	Ι <sub>R</sub>	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**

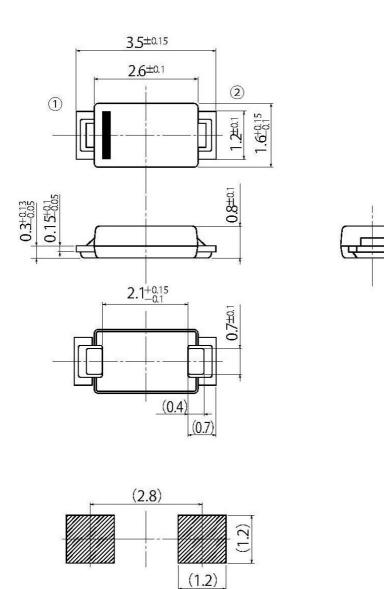




## unit:mm

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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#### [Specific applications]

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