ShinDengen

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 : Tl=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	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Ta=64°C ※	0.7	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Ta=40°C ※	0.5	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	30	A

※ :See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
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

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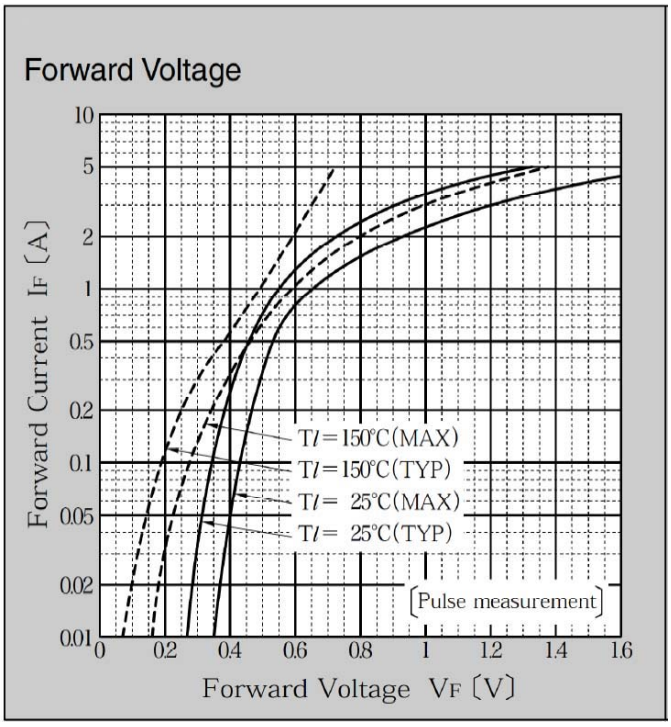
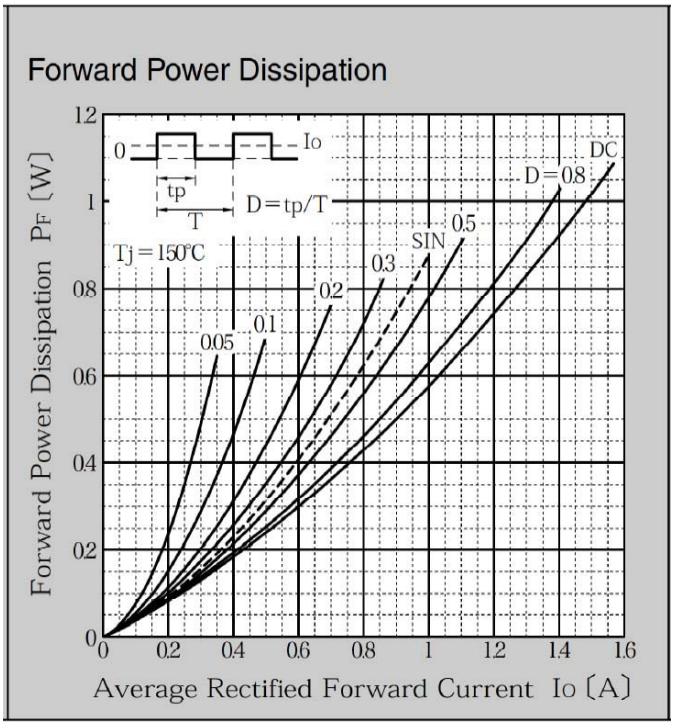
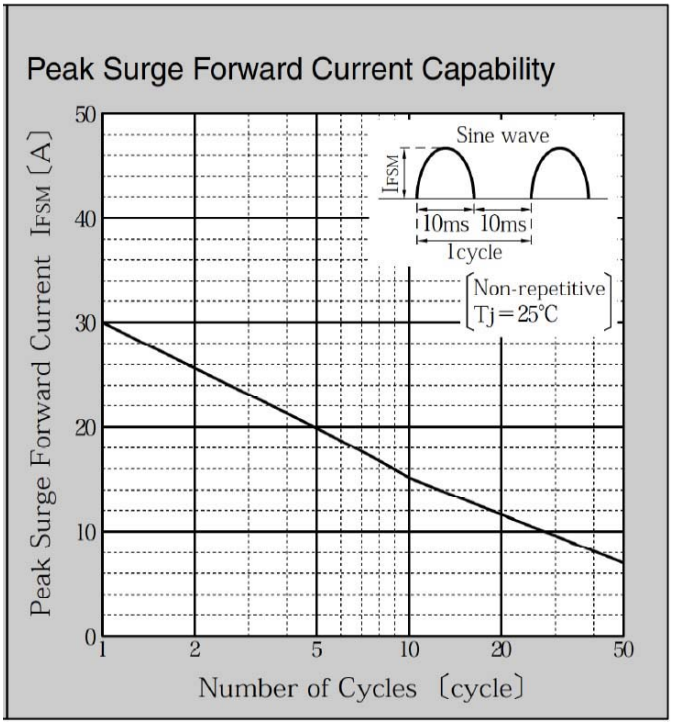
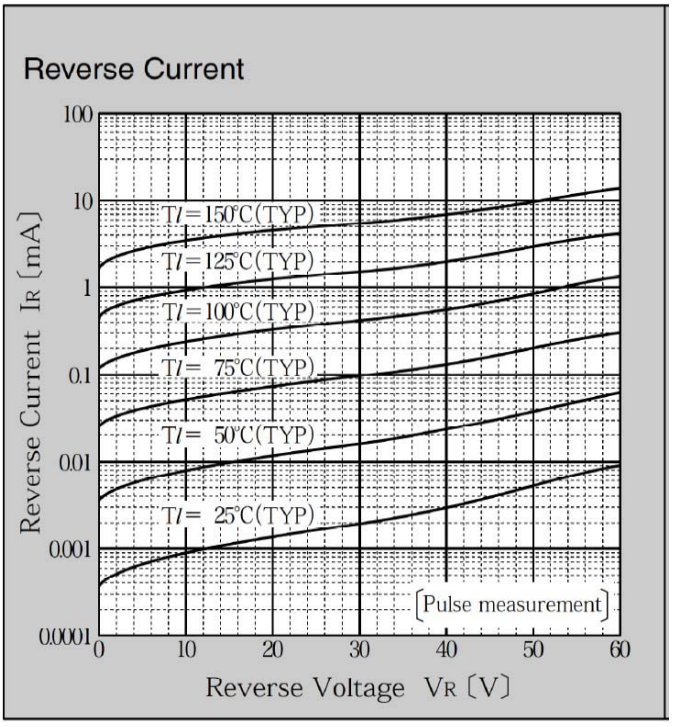
CHARACTERISTIC DIAGRAMS









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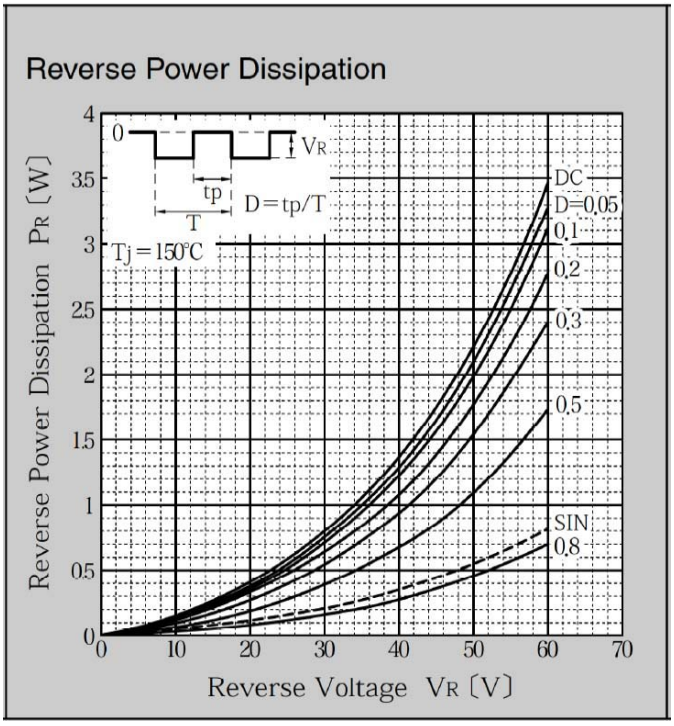

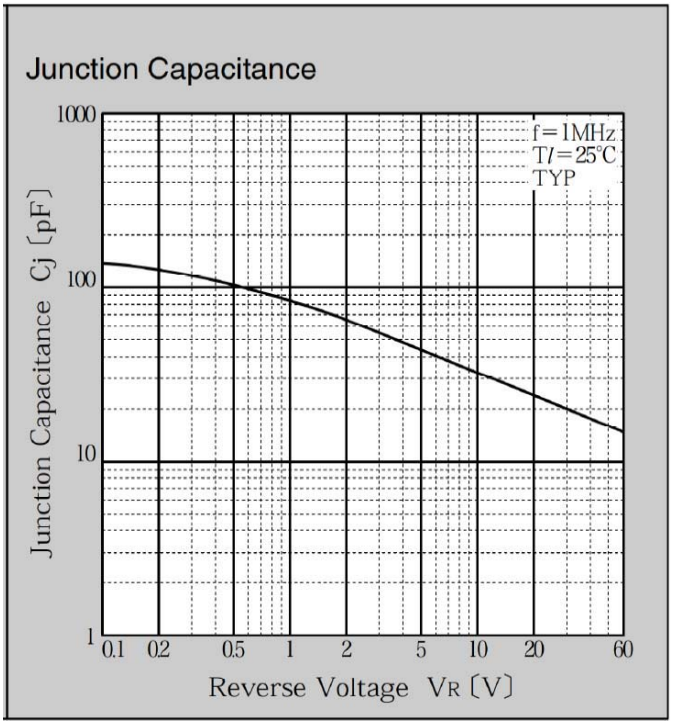

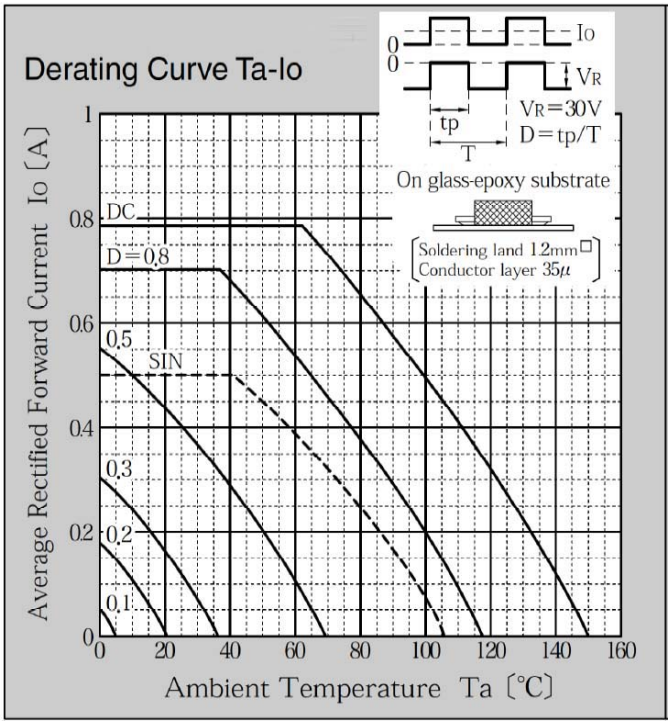

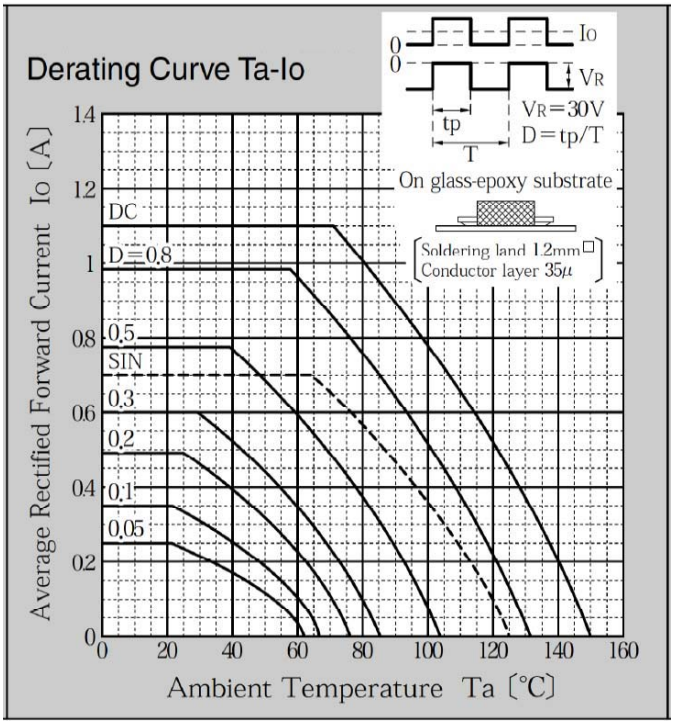

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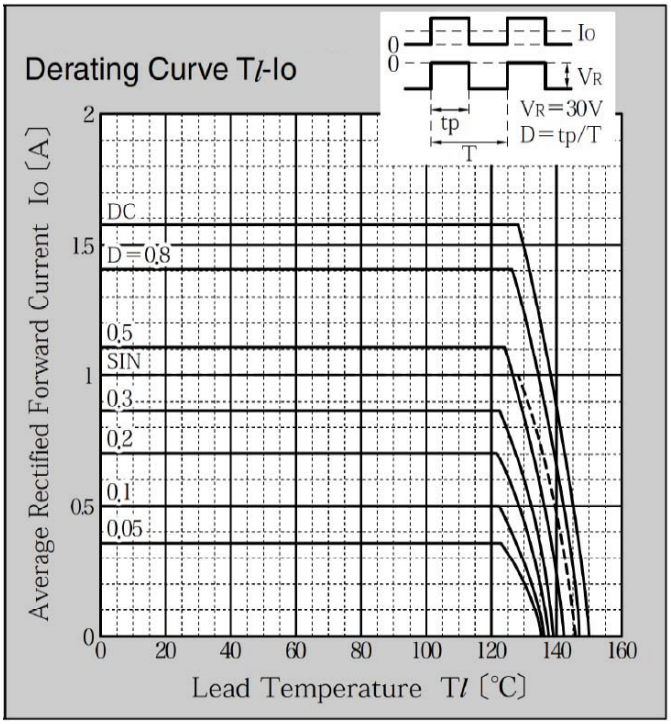

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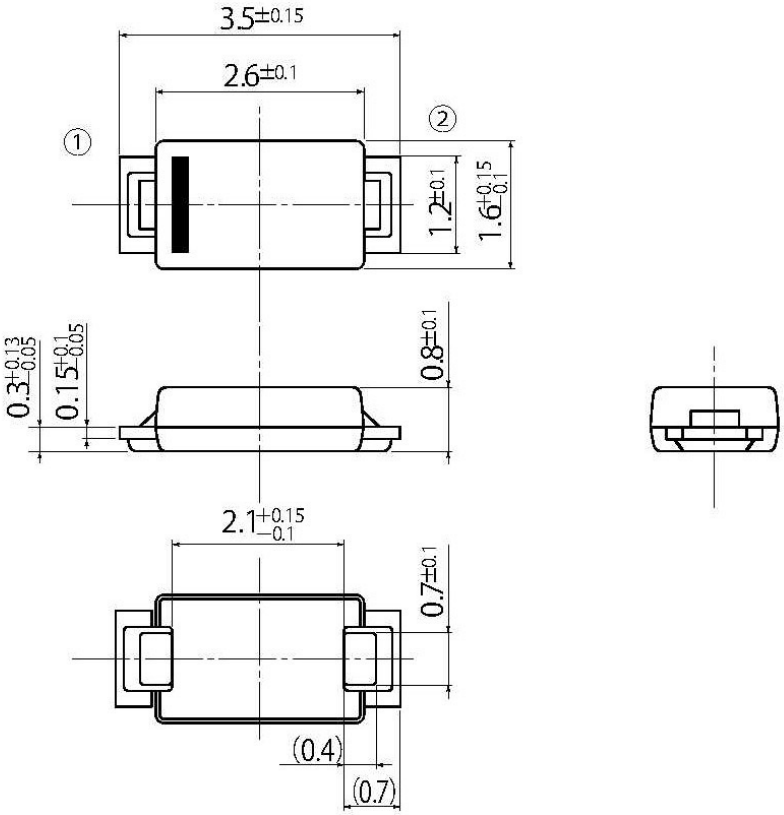
Outline Dimensions

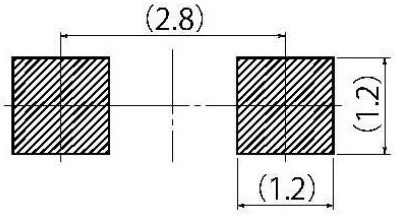
unit:mm

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 condi tion.

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Notes

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