

DG1N15A

Schottky Barrier Diodes 150V, 1.4A

Feature

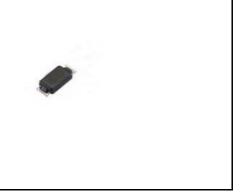
- · Ultra-small SMD
- High Voltage
- · Ultra thin PKG
- · Low I_R
- · Based on AEC-Q101
- · Resistance for thermal run-away
- · Pb free terminal
- · RoHS:Yes

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}		150	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Ta=65°C *	1.4	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Ta=43°C *	0.7	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	30	А

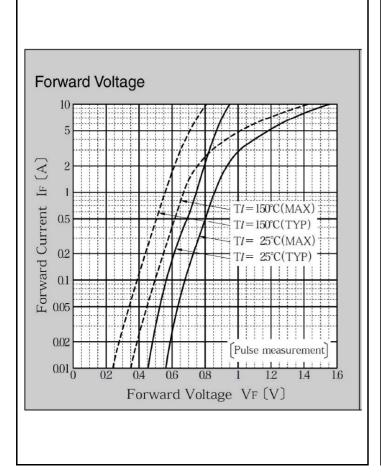
^{* :} See the original Specifications

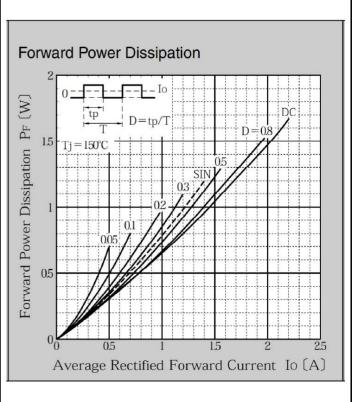
Electrical Characteristics (unless otherwise specified : TI=25°C)

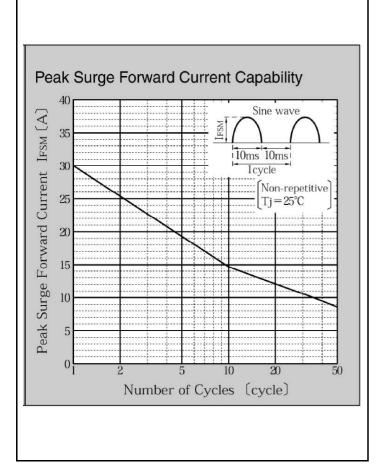
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.I.I.
Forward voltage	V _F	IF=1.4A, Pulse measurement			0.88	V
Reverse current	I _R	VR=150V, Pulse measurement			0.05	mA
Total capacitance	Ct	f=1MHz, VR=10V		32		pF
Thermal resistance	Rth(j-l)	Junction to lead, On alumina substrate *			20	°C/W
Thermal 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

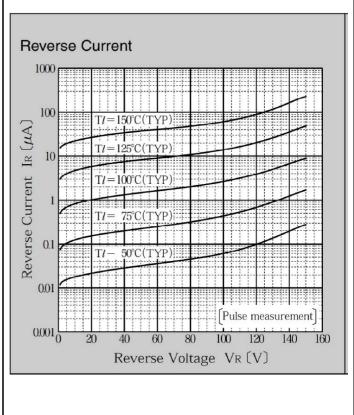
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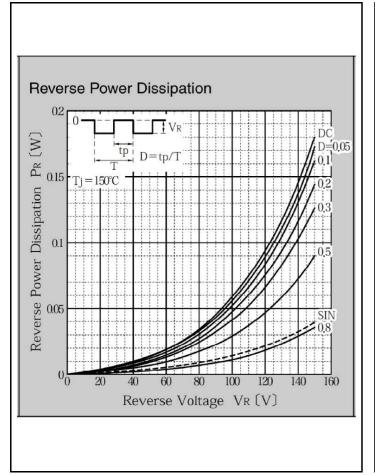
CHARACTERISTIC DIAGRAMS

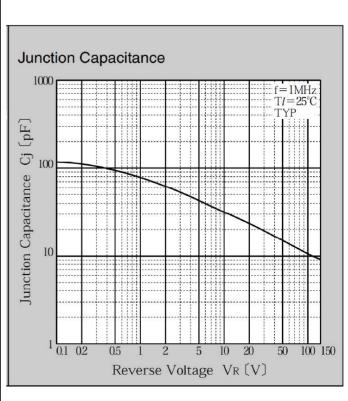


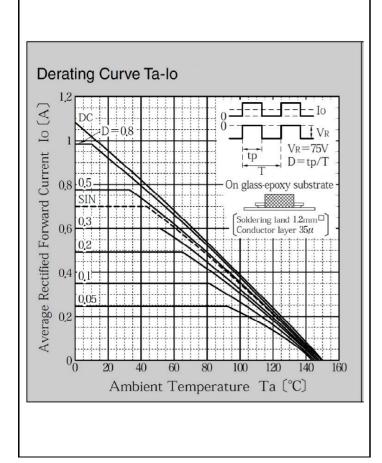


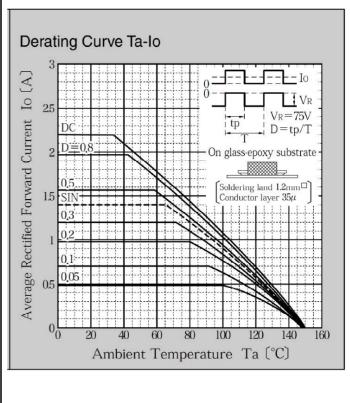








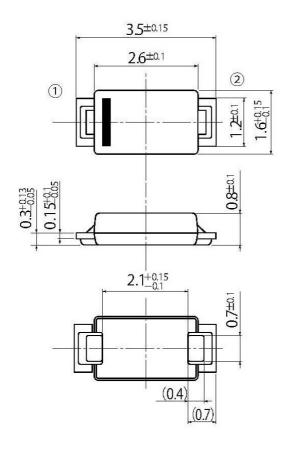




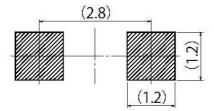
scale: 10/1

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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(Special applications)

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