ShinDengen

DE3L20UA

Fast Recovery Diodes
200V, 3A

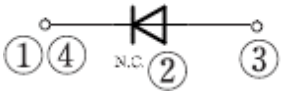
Feature

- SMD
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): E-pack
Package (JEITA Code): SC-63

Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=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}		200	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Tc=137°C	3	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C ※	2.4	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	A

※ :See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=3A, Pulse measurement			0.98	V
Reverse current	I_R	VR=200V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1A			35	ns
Total capacitance	Ct	f=1MHz, VR=10V		56		pF
Thermal resistance	Rth(j-c)	Junction to case			4	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			55	°C/W

※ ：See the original Specifications

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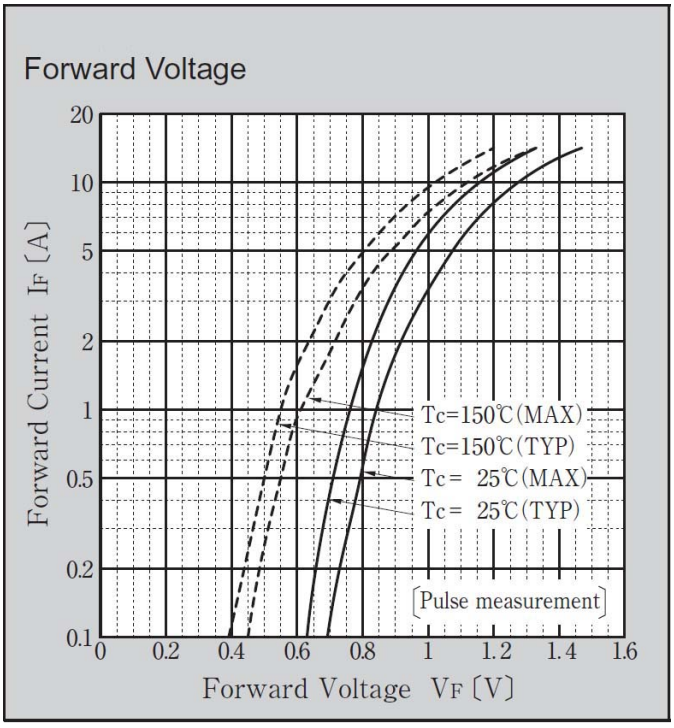
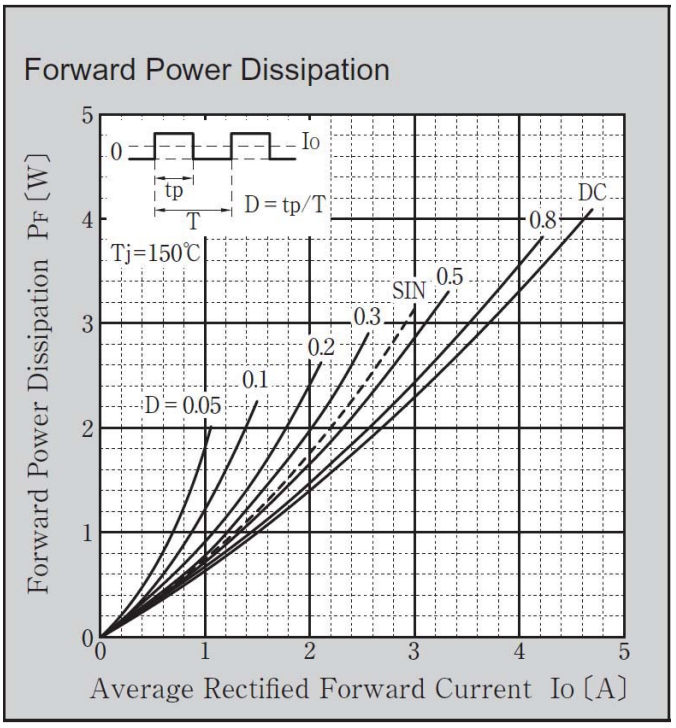
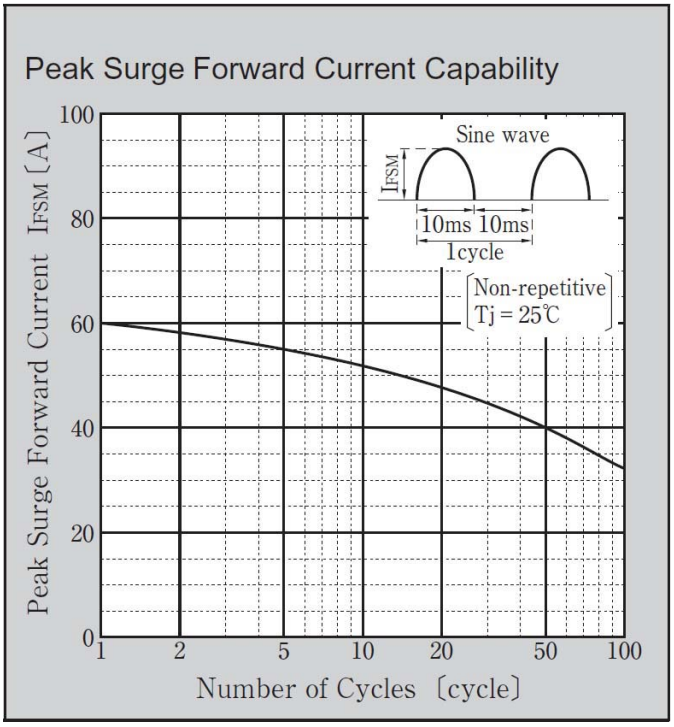
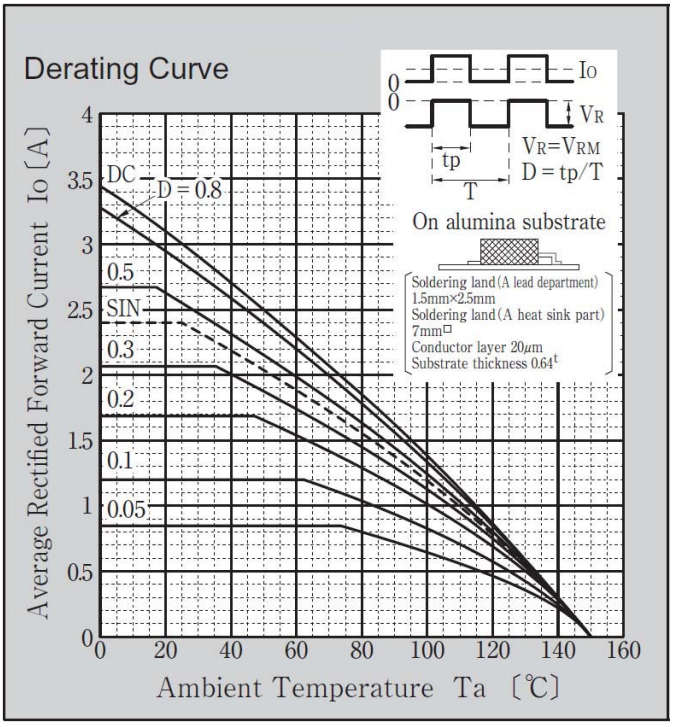
CHARACTERISTIC DIAGRAMS









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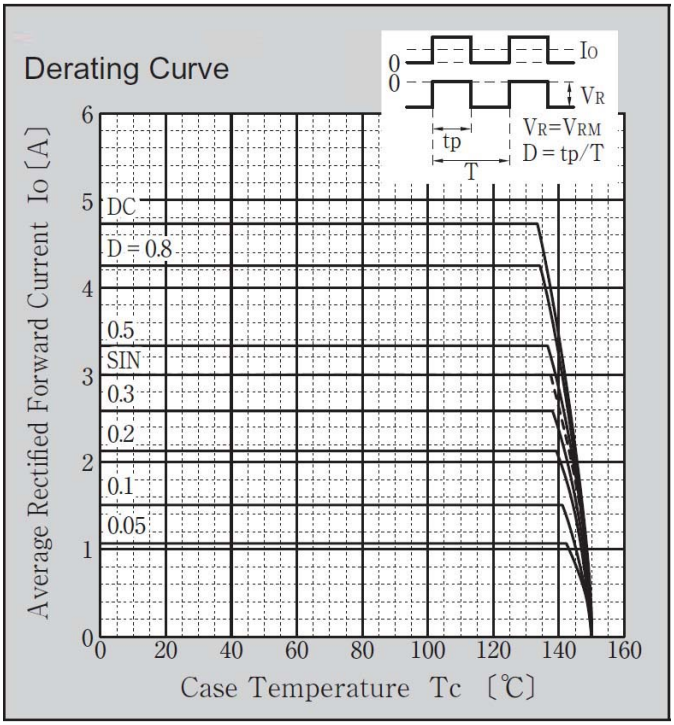

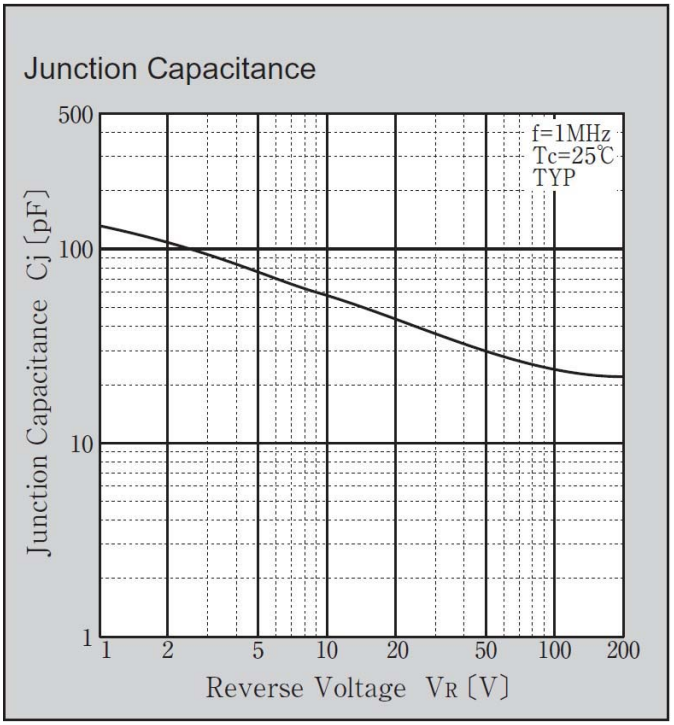

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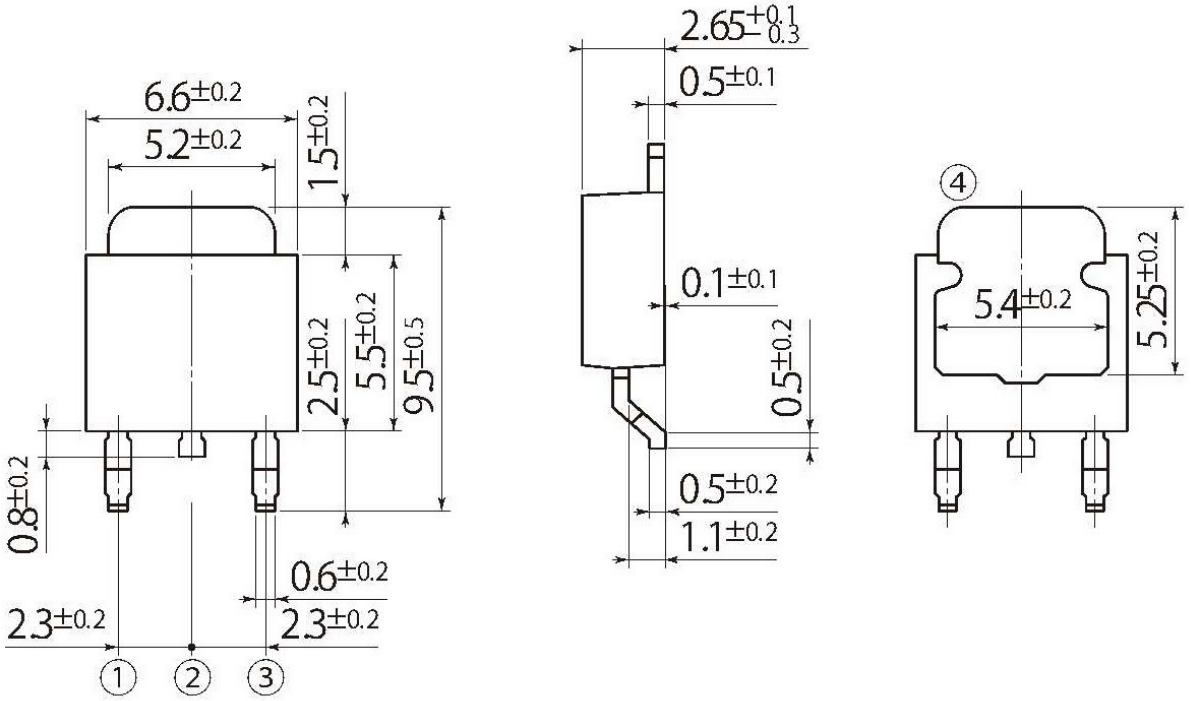
Outline Dimensions

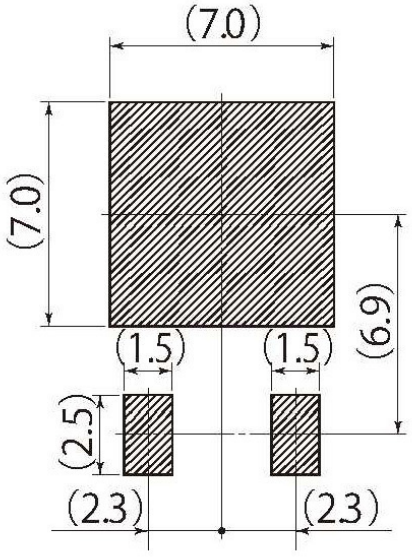
unit:mm

scale: 3/1

G1

JEDEC Code	–
JEITA Code	SC-63
House Name	E-pack





Referential Soldering Pad

・Optimize soldering pad to the board design and soldering condi tion.

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Notes

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