ShinDengen

DE10S3L

Schottky Barrier Diodes
30V, 10A

Feature

- SMD
- High Recovery Speed
- Low V_F
- 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}		30	V
Repetitive peak surge reverse voltage	V_{RRSM}	Pulse width 0.5ms, duty=1/40	35	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Tc=124°C	10	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	250	A
Repetitive peak surge reverse power	P_{RRSM}	Pulse width 10µs, Tj=25°C	660	W

※ ：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=8A, Pulse measurement			0.45	V
Reverse current	I_R	VR=30V, Pulse measurement			10	mA
Total capacitance	Ct	f=1MHz, VR=10V		640		pF
Thermal resistance	Rth(j-c)	Junction to case			4	°C/W

※ ：See the original Specifications

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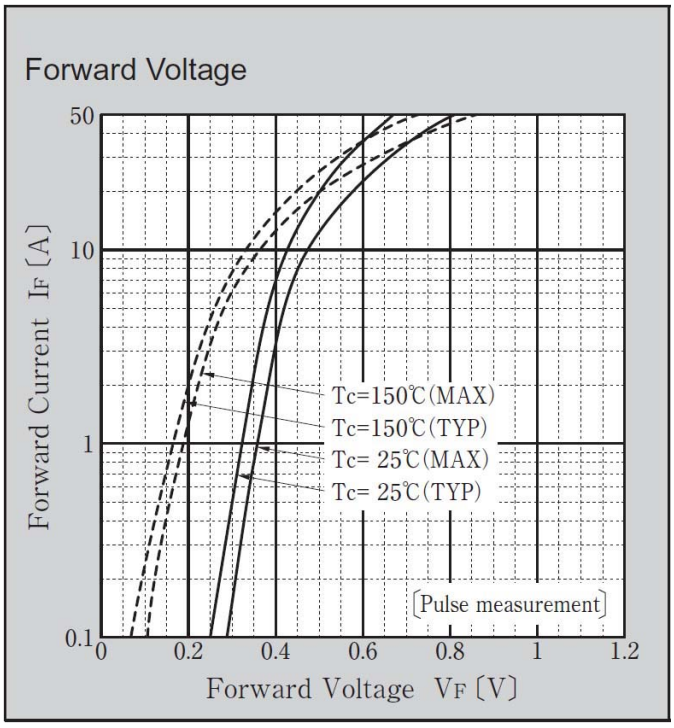
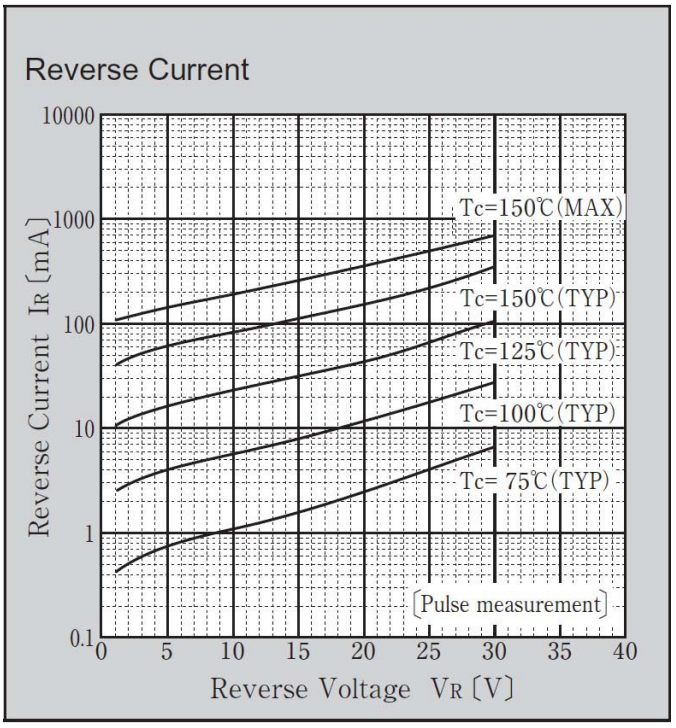
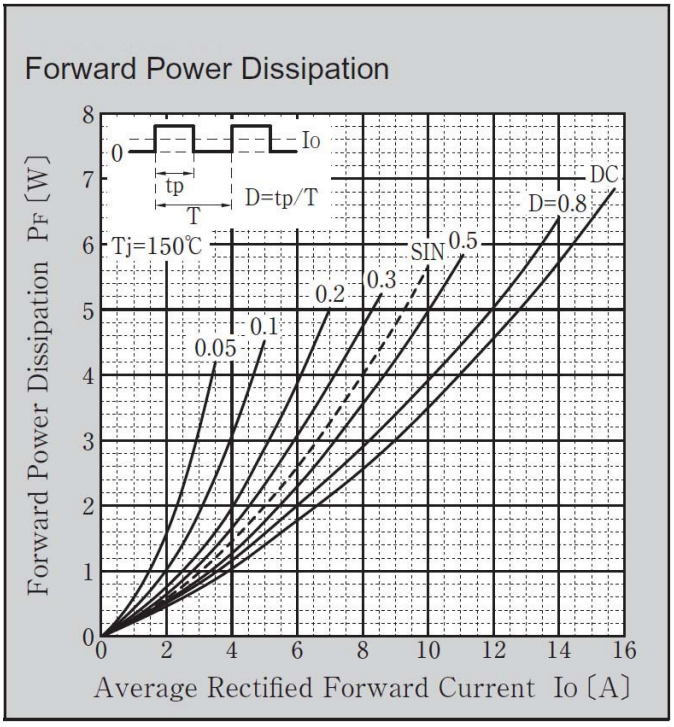
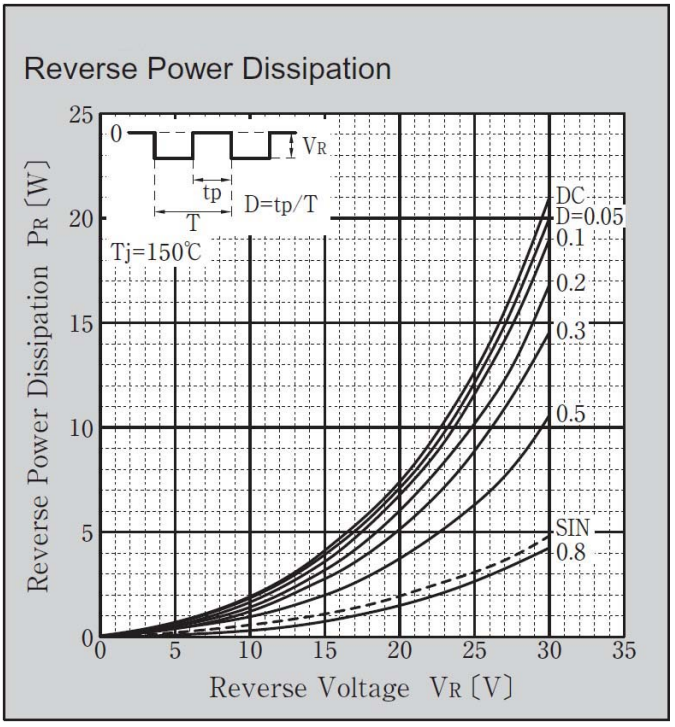
CHARACTERISTIC DIAGRAMS









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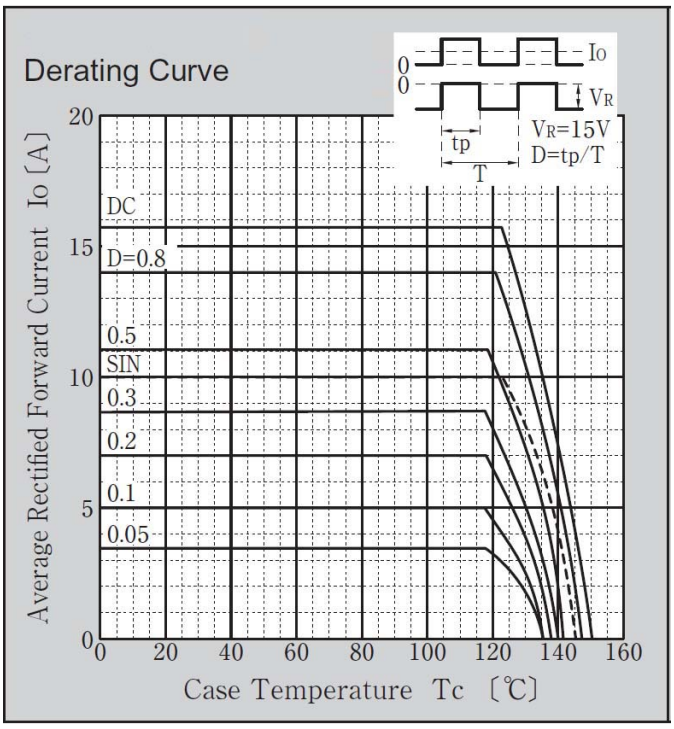
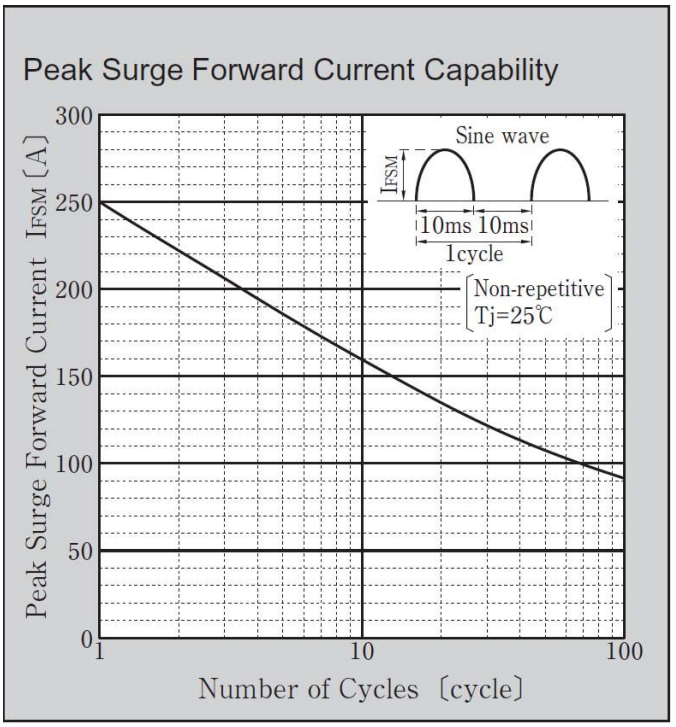
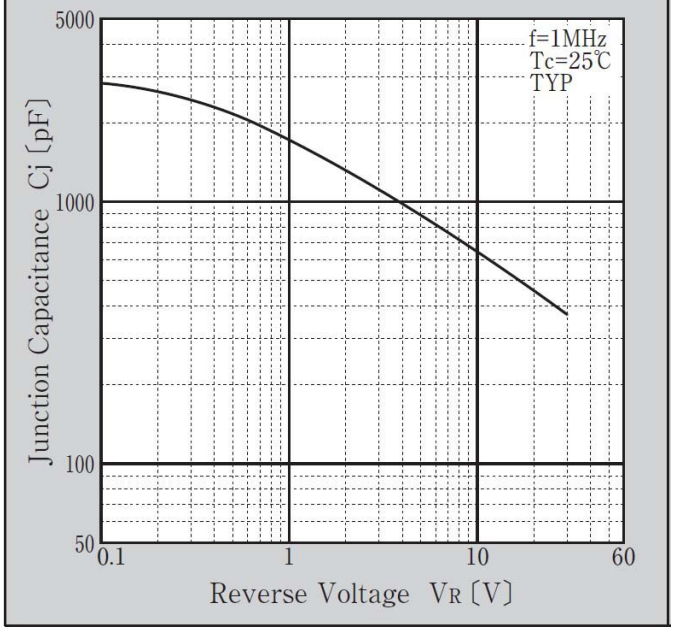
Derating Curve



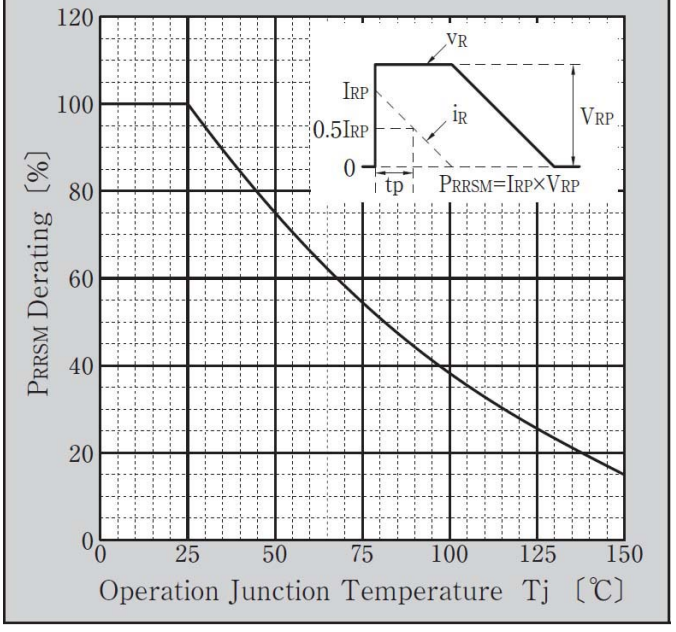
Peak Surge Forward Current Capability



Junction Capacitance



Repetitive Surge Reverse Power Derating Curve



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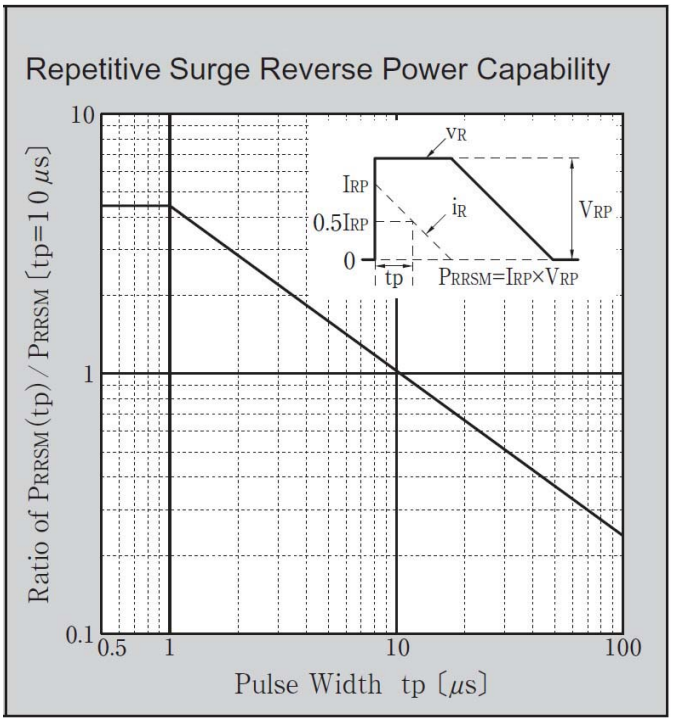

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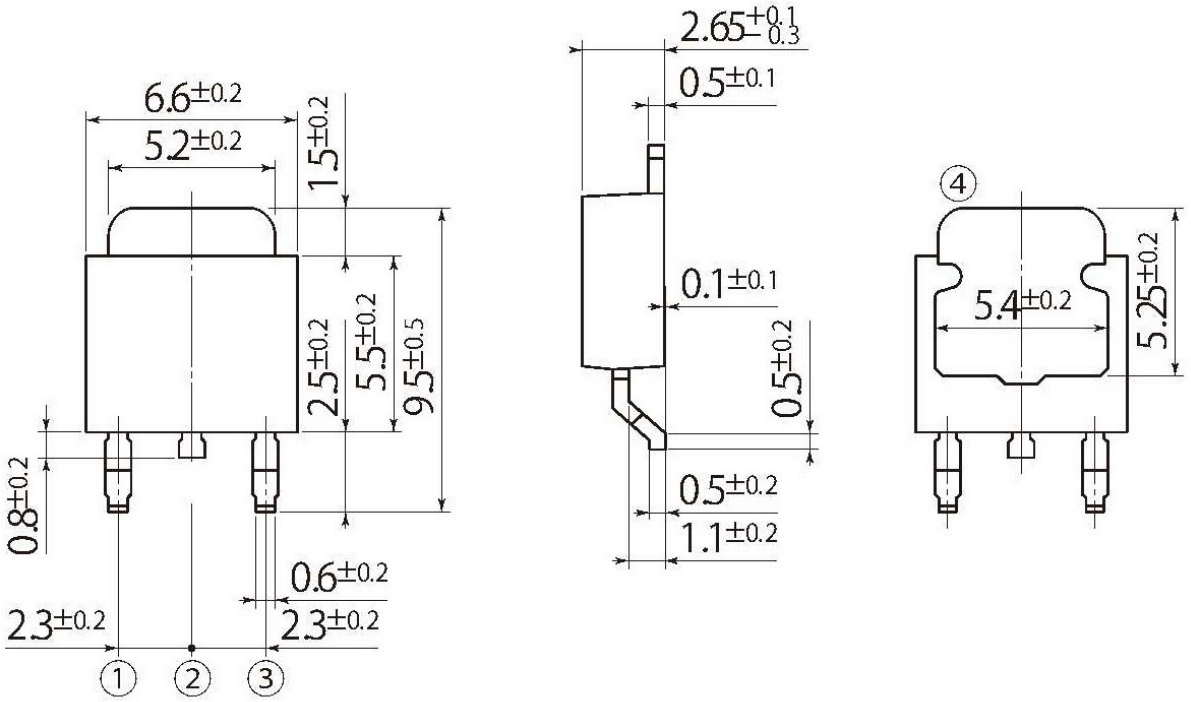
Outline Dimensions

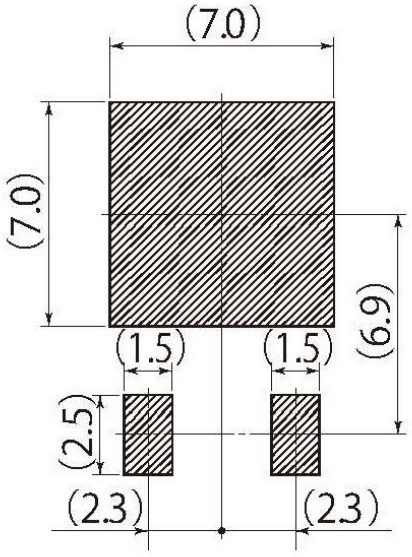
unit:mm

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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