

DE5L60A

Fast Recovery Diodes

600V, 5A

Feature

- SMD
- High Voltage
- Low Noise
- Pb free terminal
- RoHS:Yes

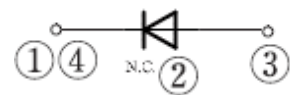
OUTLINE

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}		600	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Tc=119°C	5	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	A
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	110	A

※ : See the original Specifications

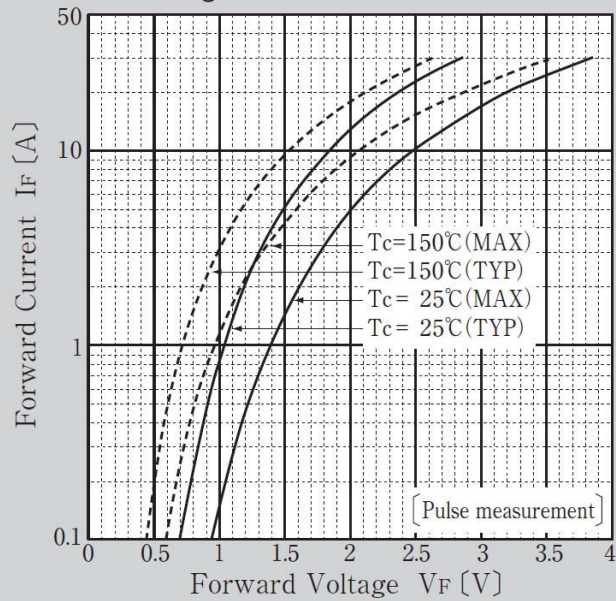
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=5.0A, Pulse measurement			2	V
Reverse current	I_R	VR=600V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.1IR			50	ns
Total capacitance	Ct	f=1MHz, VR=10V		33		pF
Thermal resistance	Rth(j-c)	Junction to case			4	°C/W

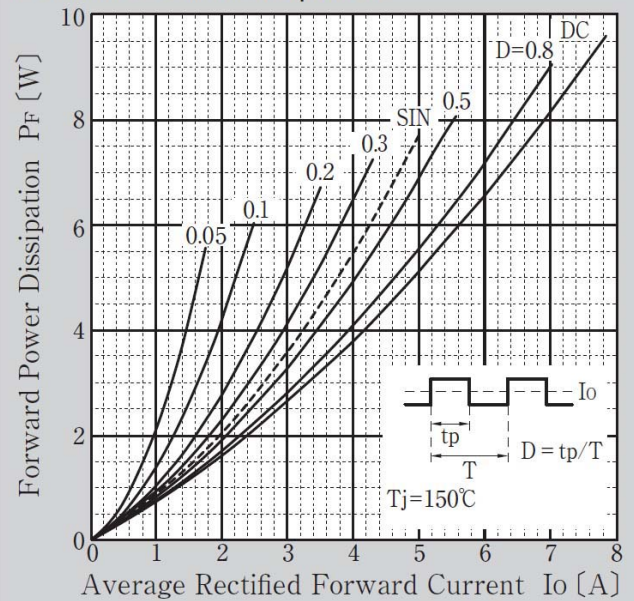
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

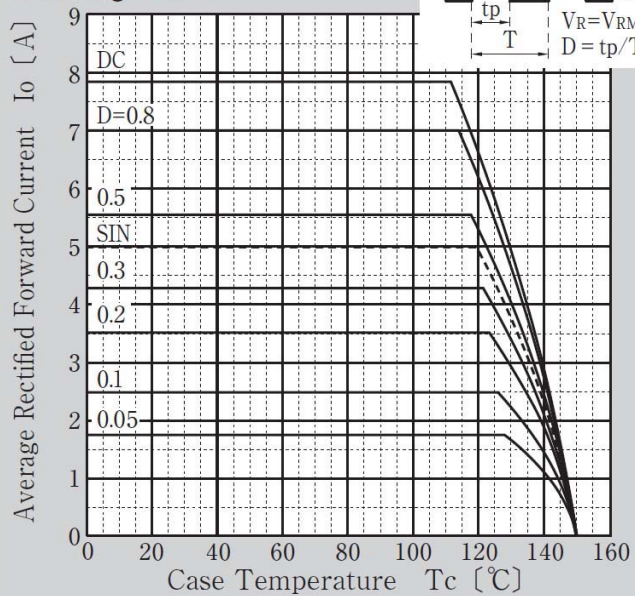
Forward Voltage



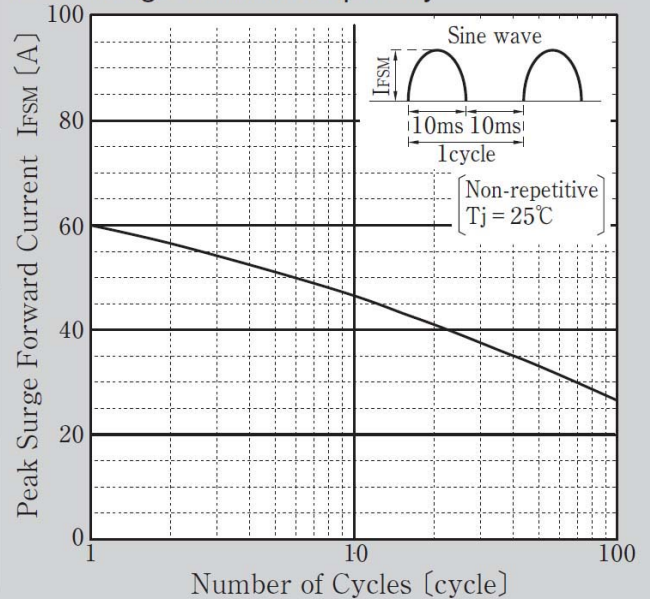
Forward Power Dissipation



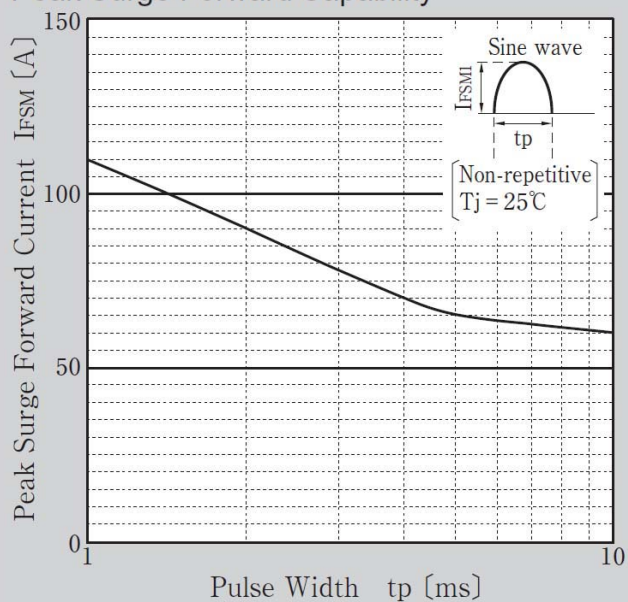
Derating Curve



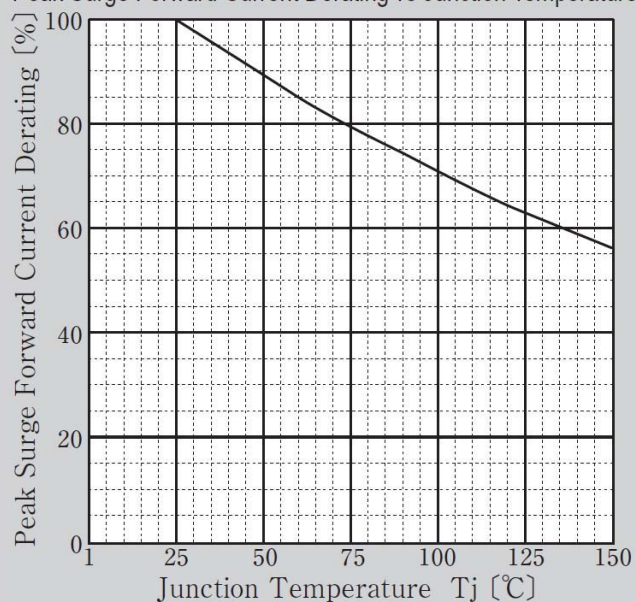
Peak Surge Forward Capability



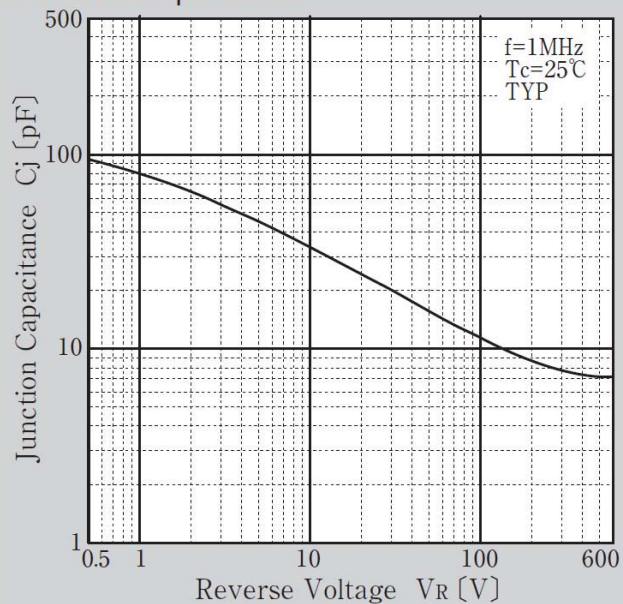
Peak Surge Forward Capability



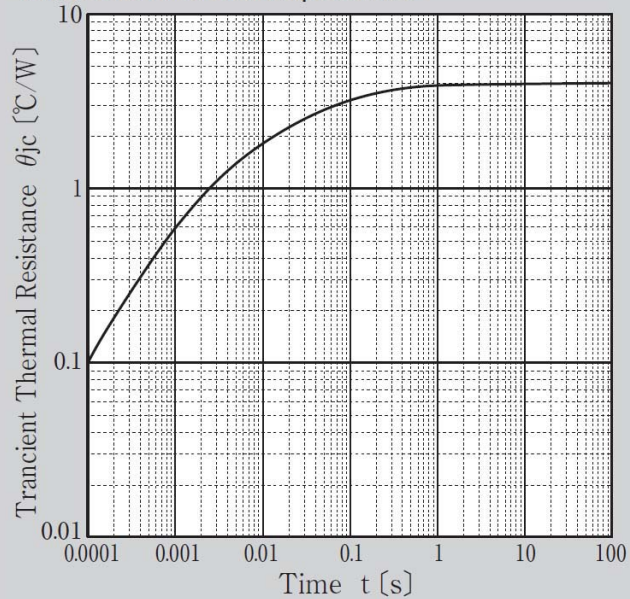
Peak Surge Forward Current Derating vs Junction Temperature



Junction Capacitance



Transient Thermal Impedance

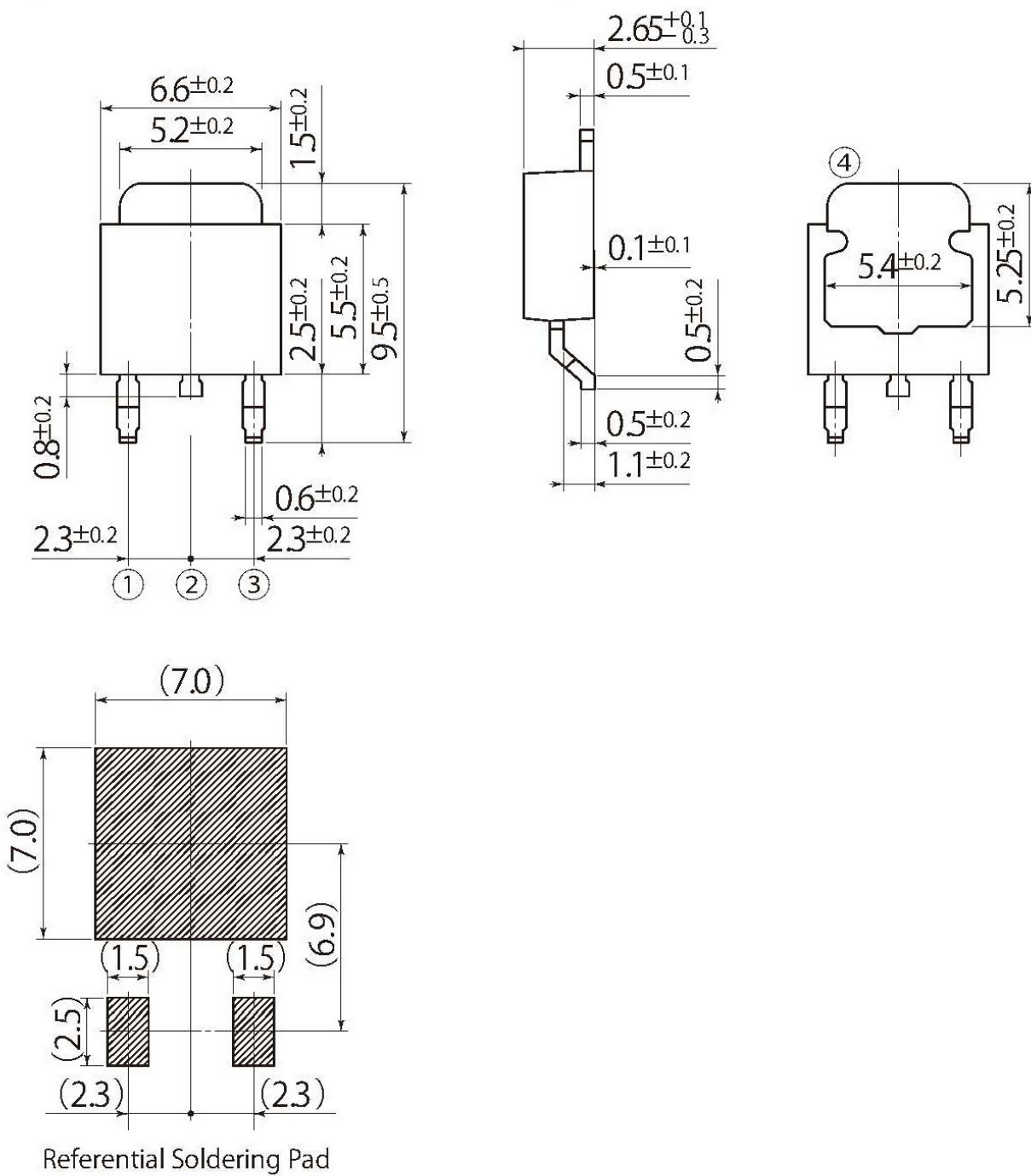


unit:mm

scale: 3/1

G1

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



- Optimize soldering pad to the board design and soldering condition.

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