

DE5L60U

Fast Recovery Diodes

600V, 5A

Feature

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

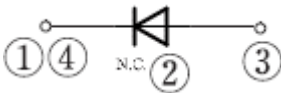
OUTLINE

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	VRRM		600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Tc=91°C	5	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	A

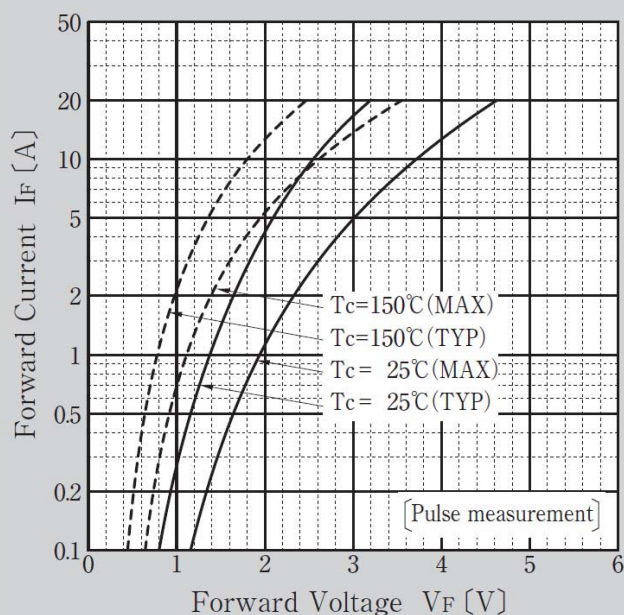
※ :See the original Specifications

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

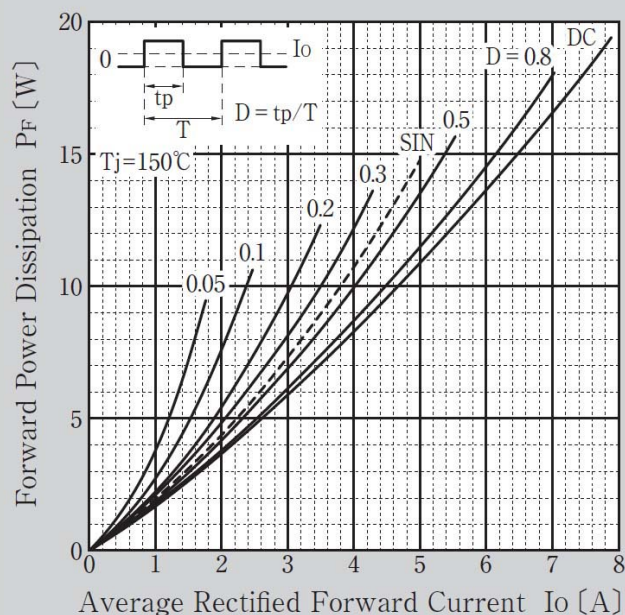
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	VF	IF=5.0A, Pulse measurement			3	V
Reverse current	IR	VR=600V, Pulse measurement			25	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A			25	ns
Total capacitance	Ct	f=1MHz, VR=10V		30		pF
Thermal resistance	Rth(j-c)	Junction to case			4	°C/W

※ :See the original Specifications

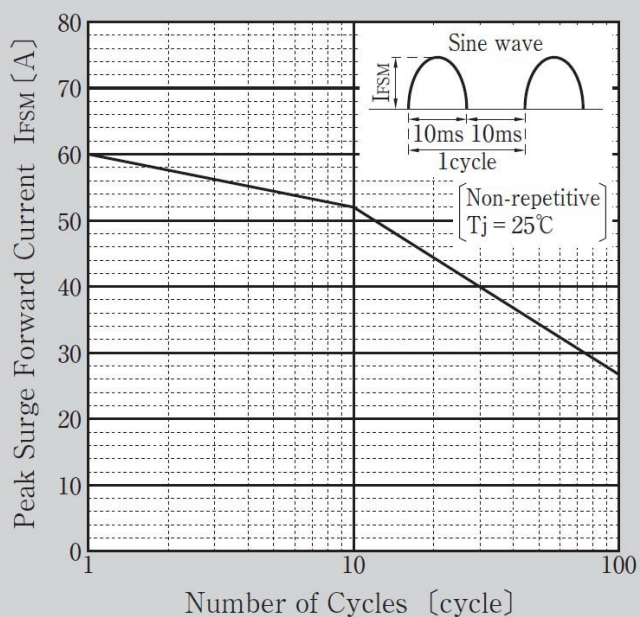
Forward Voltage



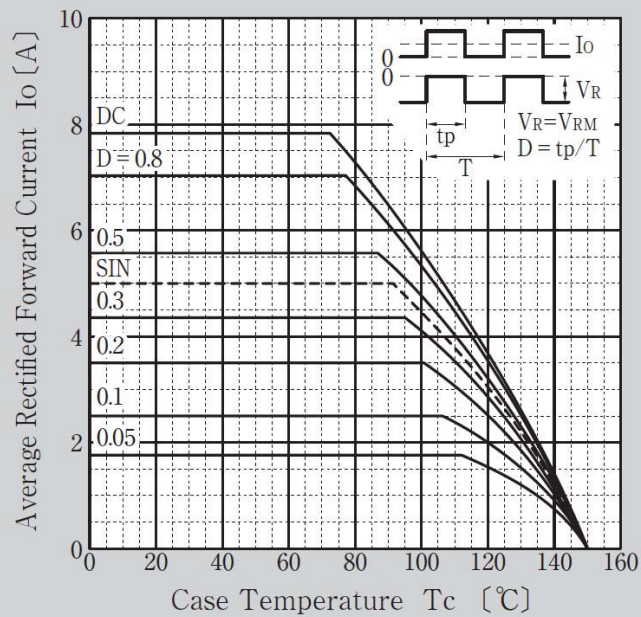
Forward Power Dissipation

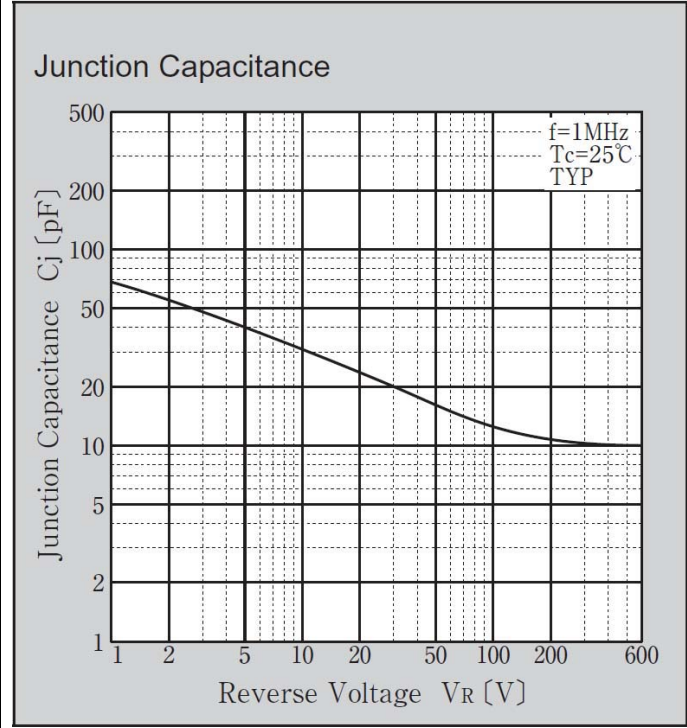


Peak Surge Forward Current Capability



Derating Curve



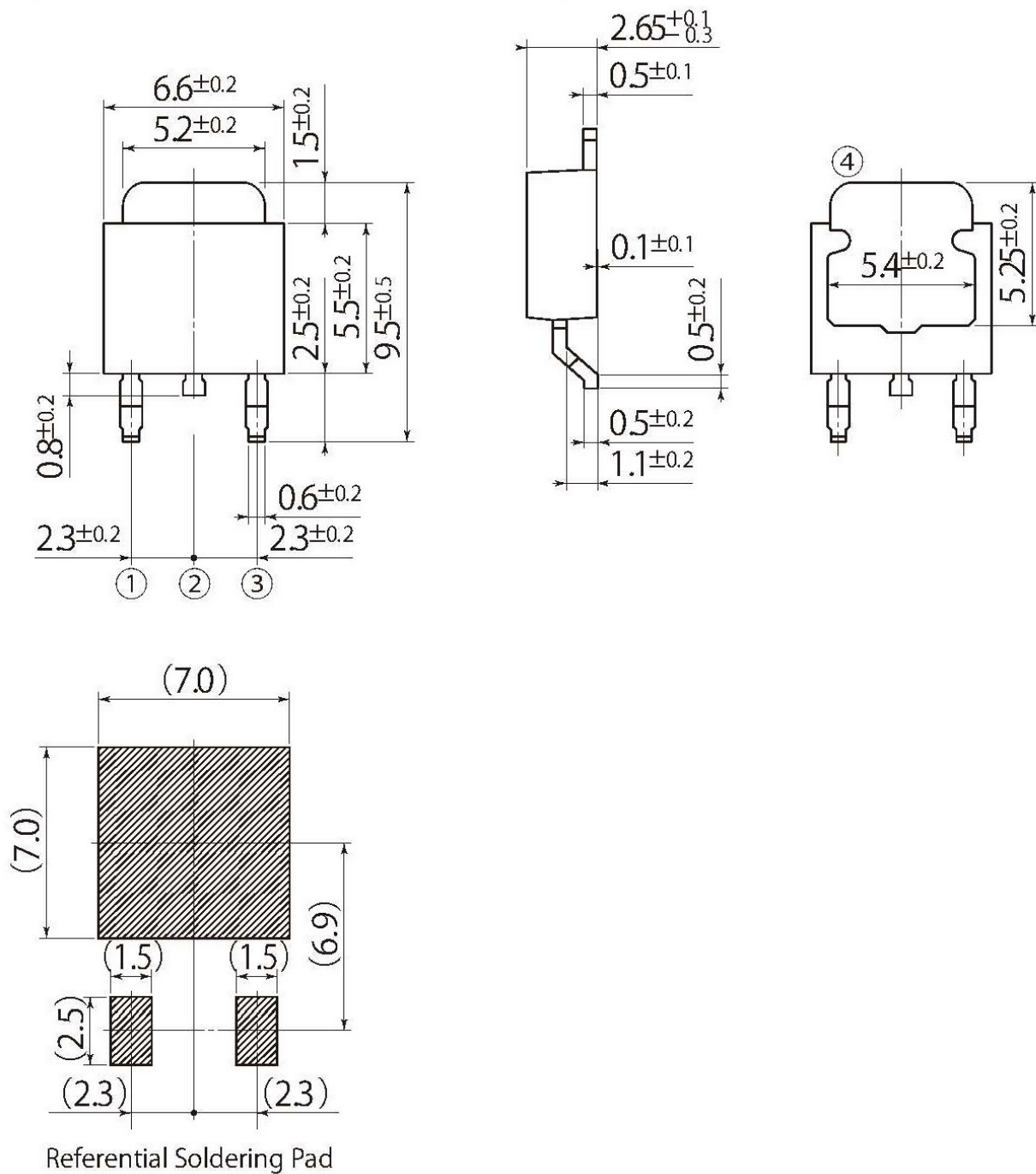


unit:mm

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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