

# DE5L60A

Fast Recovery Diodes  
600V, 5A

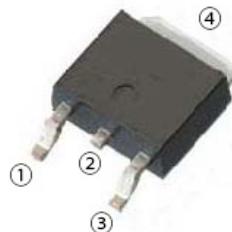
## Feature

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

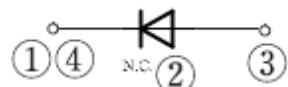
## OUTLINE

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 temperature	T <sub>stg</sub>		-55 to 150	°C
Junction temperature	T <sub>j</sub>		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, Tc=119°C	5	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	A
Surge forward current	I <sub>FSM1</sub>	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	110	A

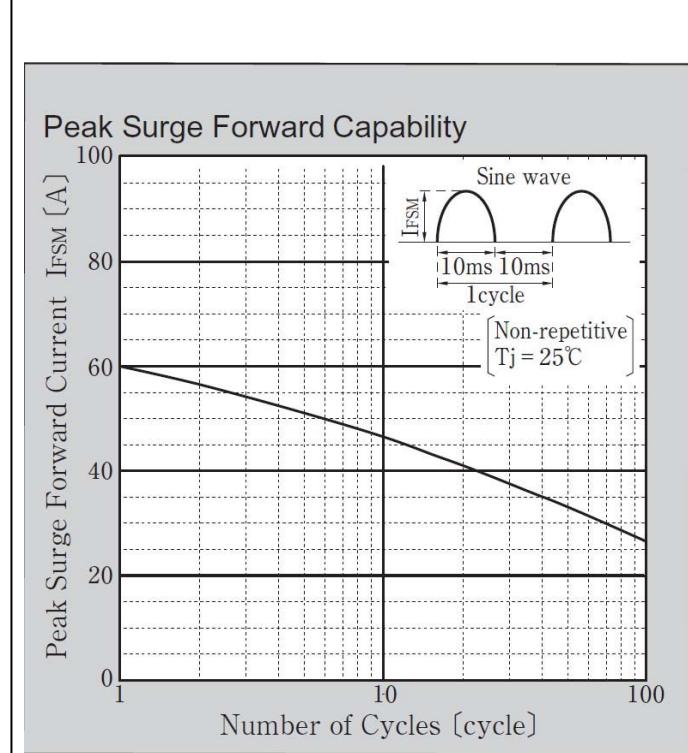
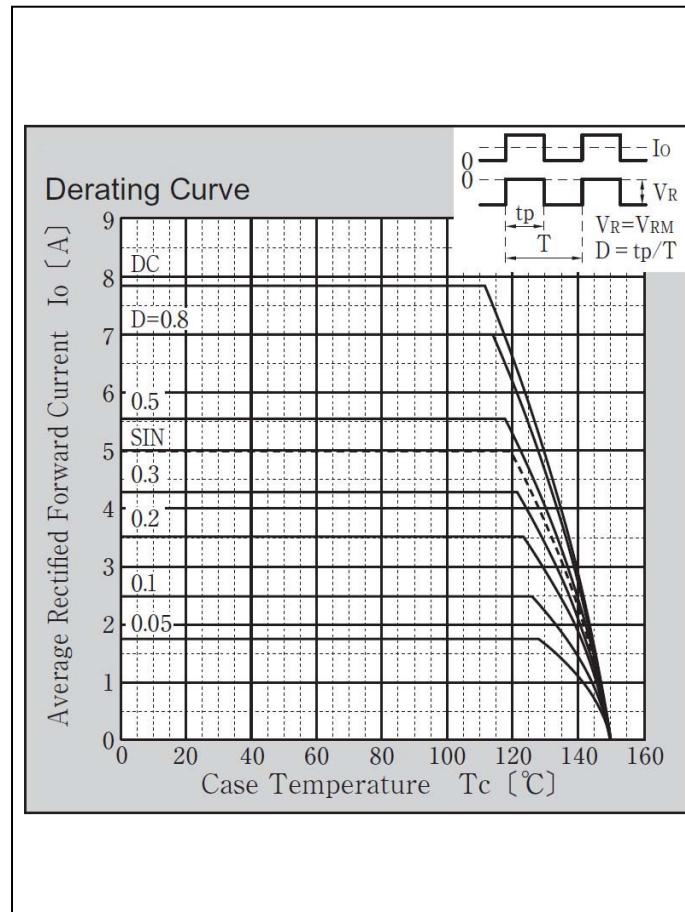
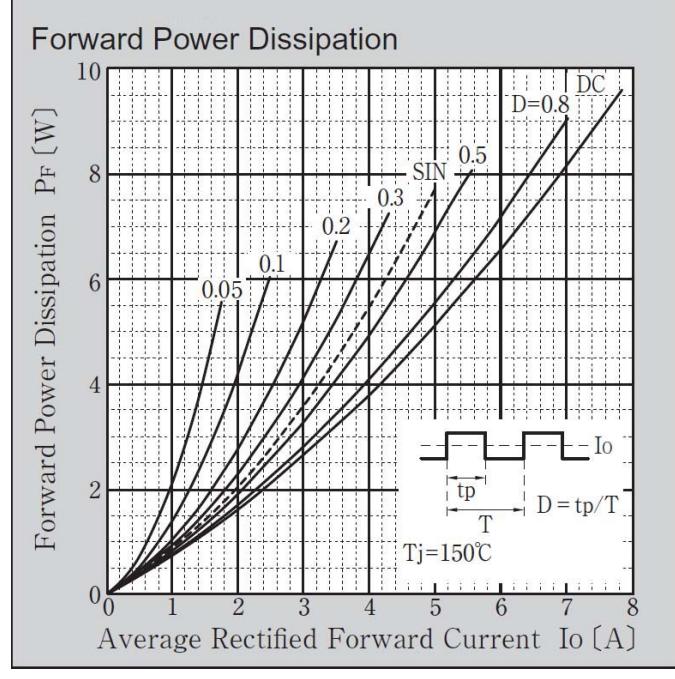
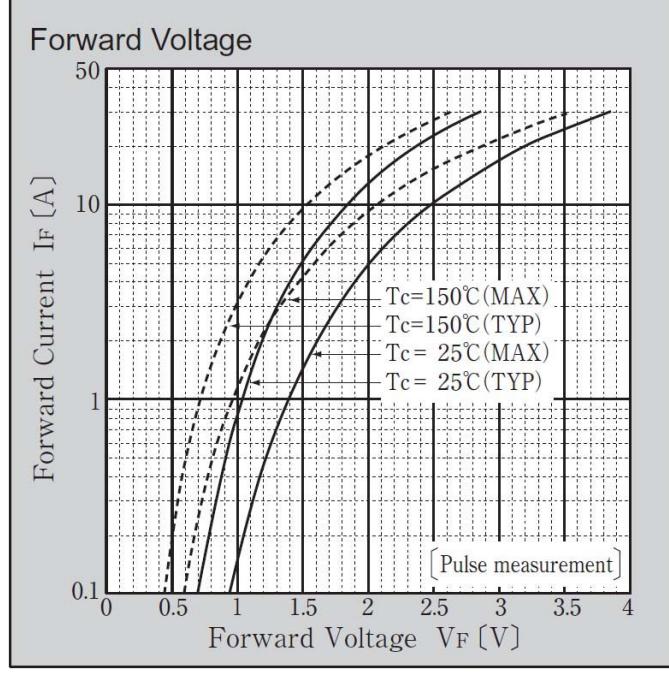
※ :See the original Specifications

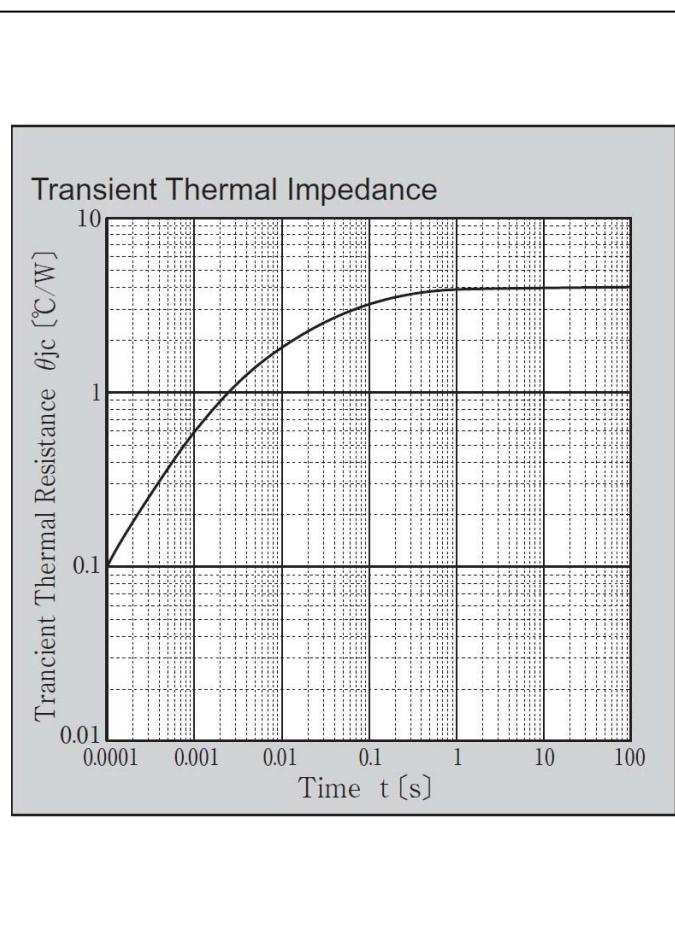
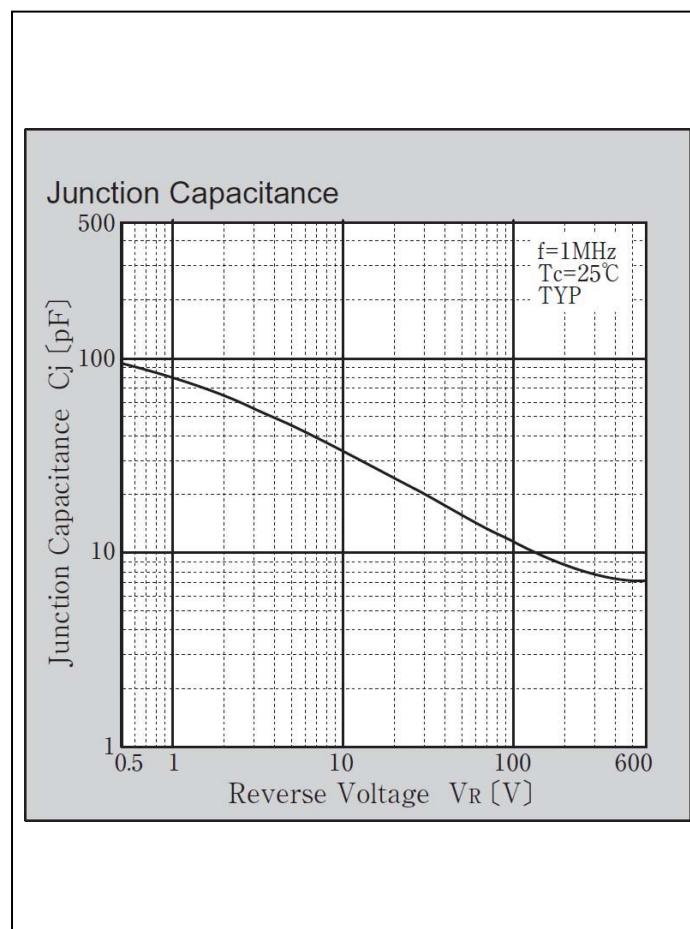
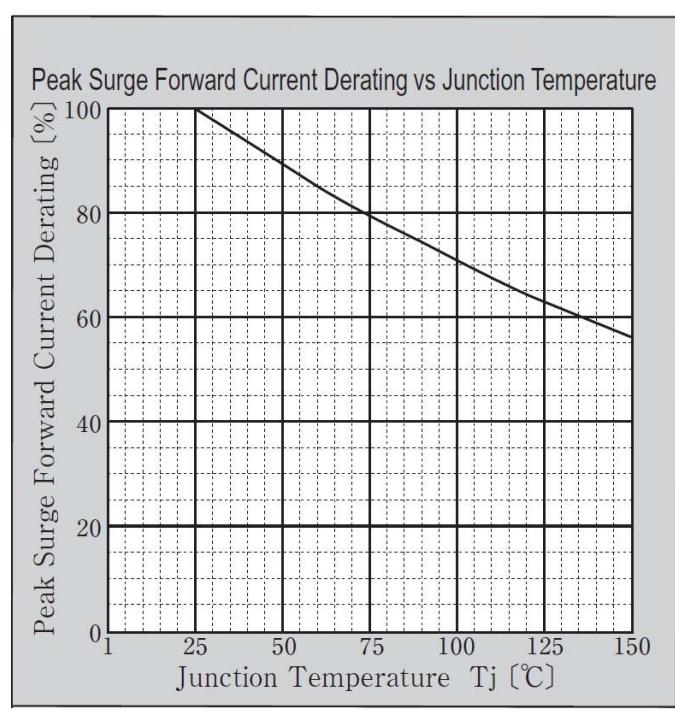
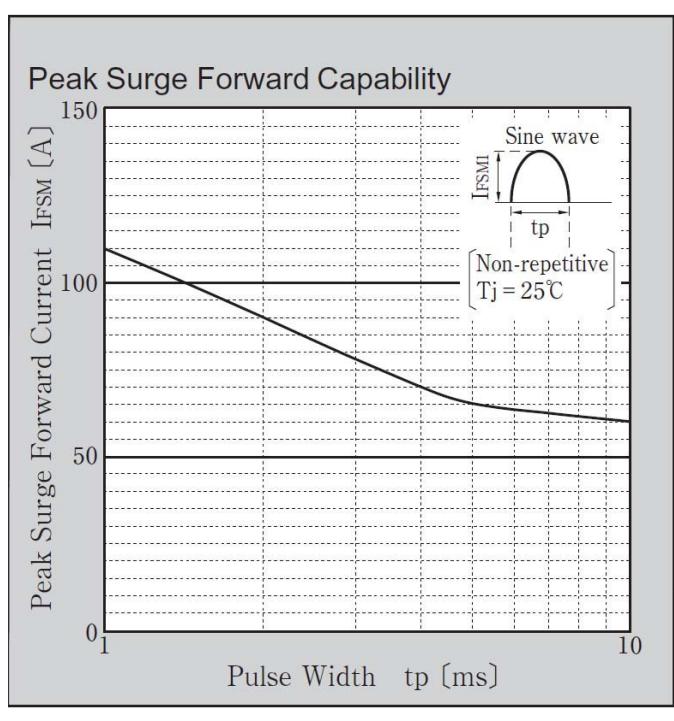
**Electrical Characteristics** (unless otherwise specified :  $T_c=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$IF=5.0\text{A}$ , Pulse measurement			2	V
Reverse current	$I_R$	$VR=600\text{V}$ , Pulse measurement			10	$\mu\text{A}$
Reverse recovery time	$trr$	$IF=0.5\text{A}$ , $IR=1.0\text{A}$ , $0.1IR$			50	ns
Total capacitance	$C_t$	$f=1\text{MHz}$ , $VR=10\text{V}$		33		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case			4	$^\circ\text{C}/\text{W}$

※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS





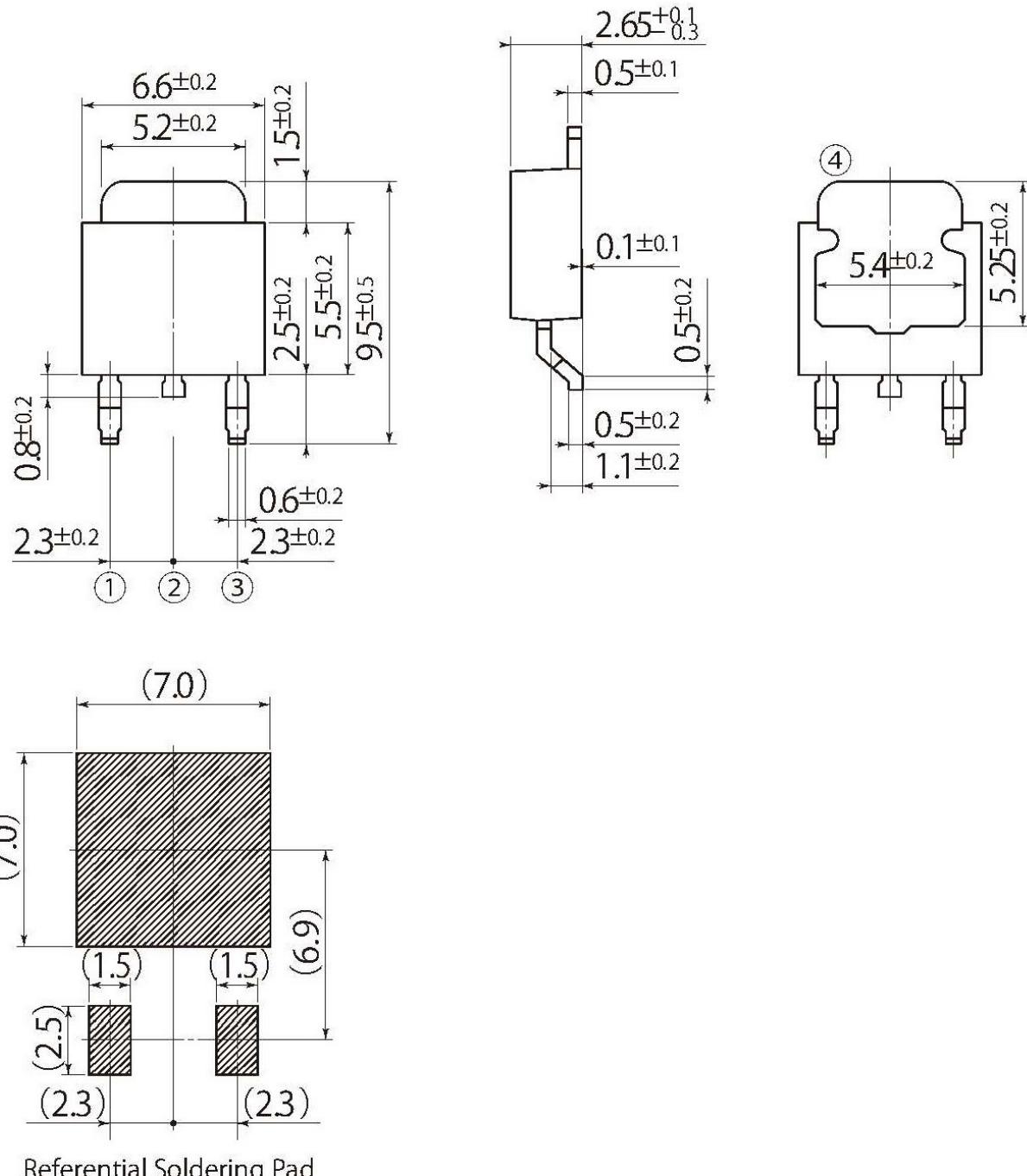
## Outline Dimensions

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.

## Notes

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2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

### 【Special applications】

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, anti-disaster/crime systems, safety equipment, medical equipment, etc.

### 【Specific applications】

Nuclear reactor control systems, aircraft, aerospace equipment, submarine repeaters, life support equipment and systems, etc.

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