

# DE5L60U

# Fast Recovery Diodes 600V, 5A

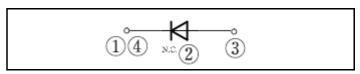
#### **Feature**

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

### **OUTLINE**



# **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 <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Tc=91°C	5	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	Α

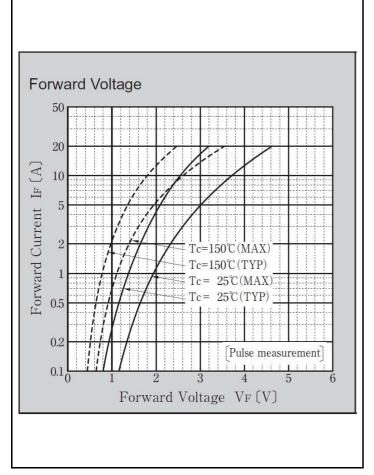
<sup>\* :</sup>See the original Specifications

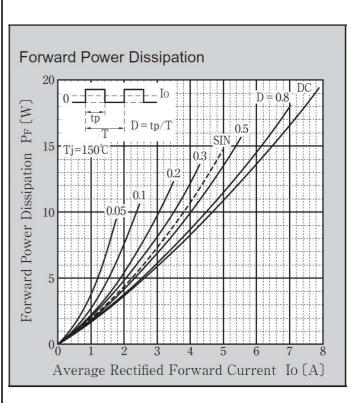
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

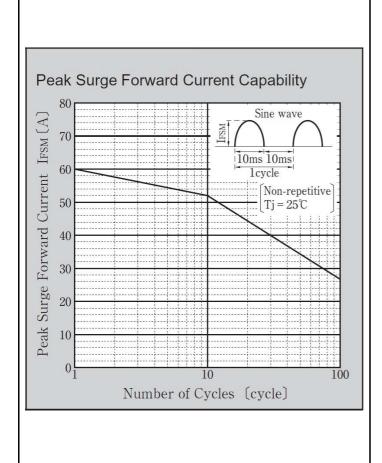
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Forward voltage	V <sub>F</sub>	IF=5.0A, Pulse measurement			3	V
Reverse current	I <sub>R</sub>	VR=600V, Pulse measurement			25	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A			25	ns
Total capacitance	Ct	f=1MHz, VR=10V		30		pF
Thermal resistance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

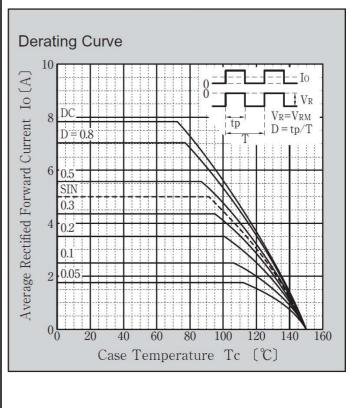
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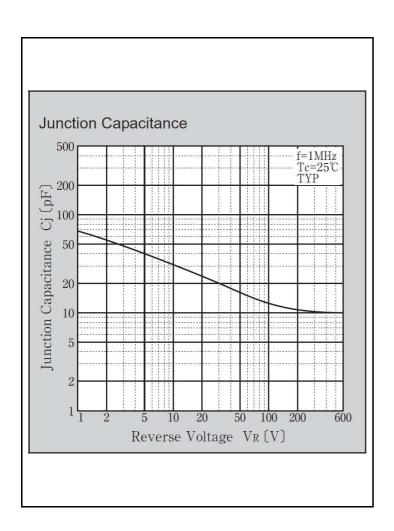
# **CHARACTERISTIC DIAGRAMS**







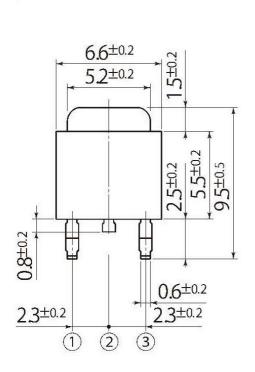


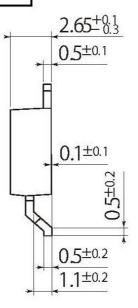


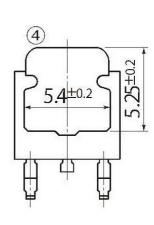
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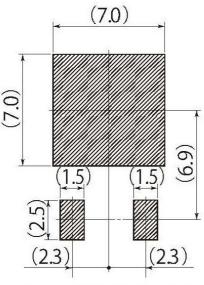
G1

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









Referential Soldering Pad

<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

#### **Notes**

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#### (Special applications)

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#### (Specific applications)

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