

# DE10S3L

Schottky Barrier Diodes  
30V, 10A

**Feature**

- SMD
- High Recovery Speed
- Low  $V_F$
- Pb free terminal
- RoHS:Yes

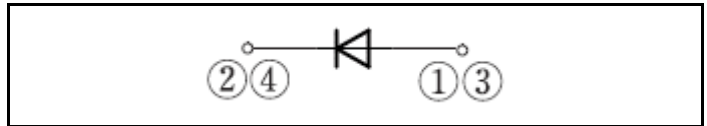
**OUTLINE**

Package (House Name): E-pack

Package (JEITA Code): SC-63



**Equivalent circuit**



**Absolute Maximum Ratings** (unless otherwise specified :  $T_c=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	$T_{stg}$		-55 to 150	$^\circ\text{C}$
Junction temperature	$T_j$		150	$^\circ\text{C}$
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, $T_c=124^\circ\text{C}$	10	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive, 1 cycle, Peak value, $T_j=25^\circ\text{C}$	250	A
Repetitive peak surge reverse power	$P_{RRSM}$	Pulse width 10 $\mu\text{s}$ , $T_j=25^\circ\text{C}$	660	W

※ :See the original Specifications

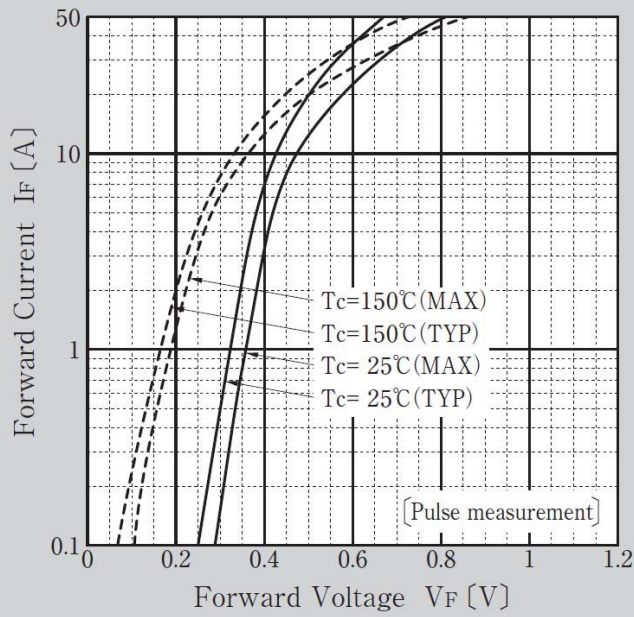
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =8A, Pulse measurement			0.45	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =30V, Pulse measurement			10	mA
Total capacitance	C <sub>t</sub>	f=1MHz, V <sub>R</sub> =10V		640		pF
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case			4	°C/W

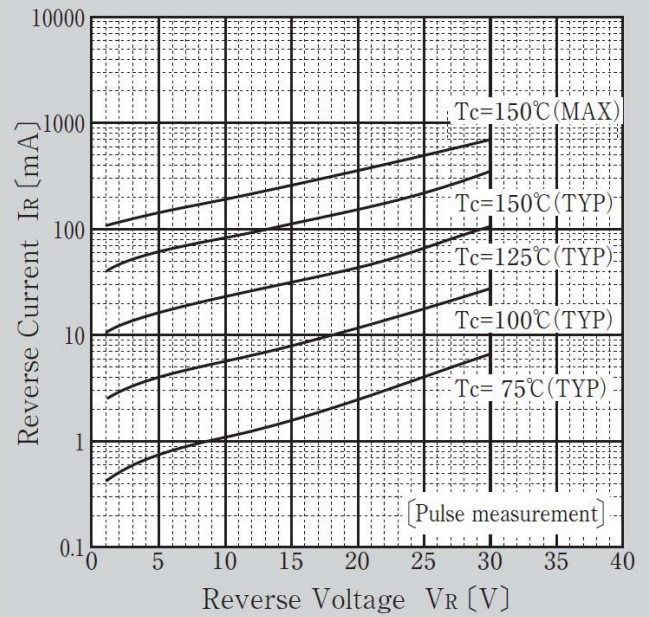
\* : See the original Specifications

# CHARACTERISTIC DIAGRAMS

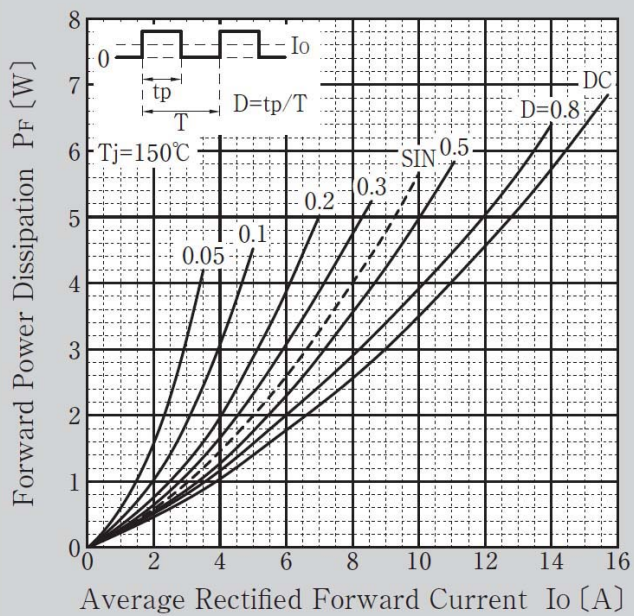
### Forward Voltage



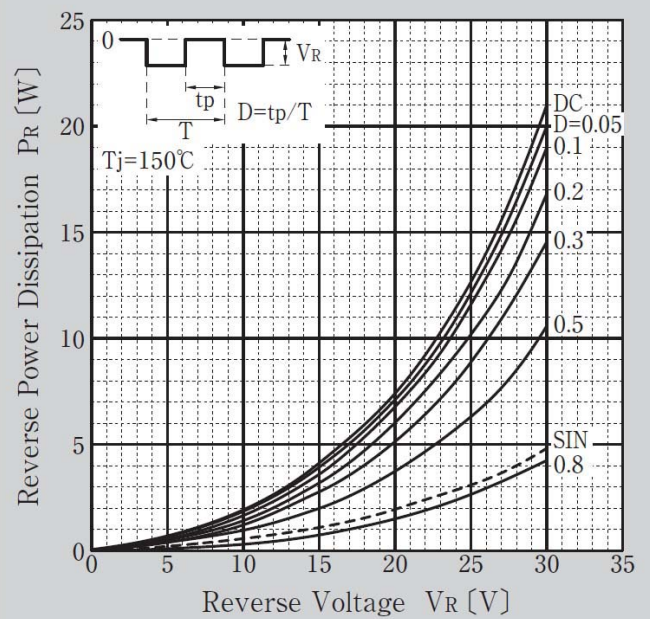
### Reverse Current

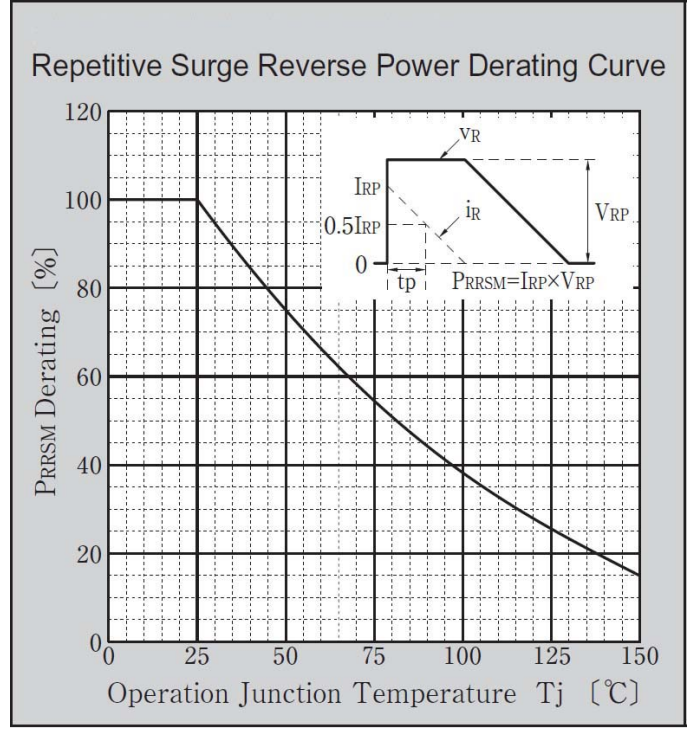
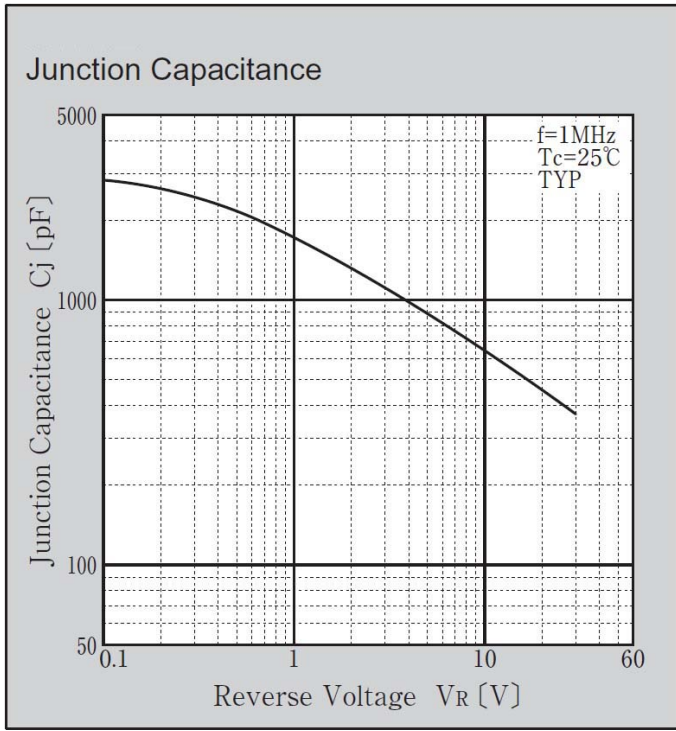
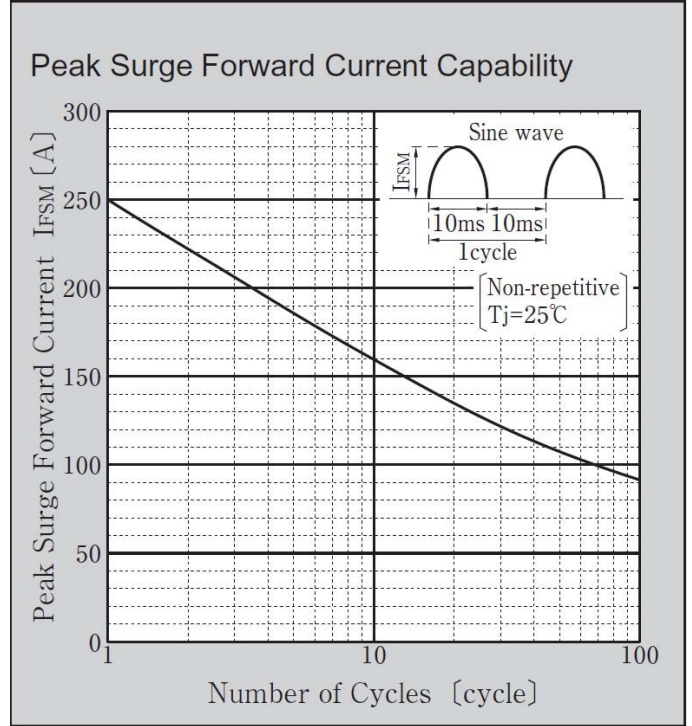
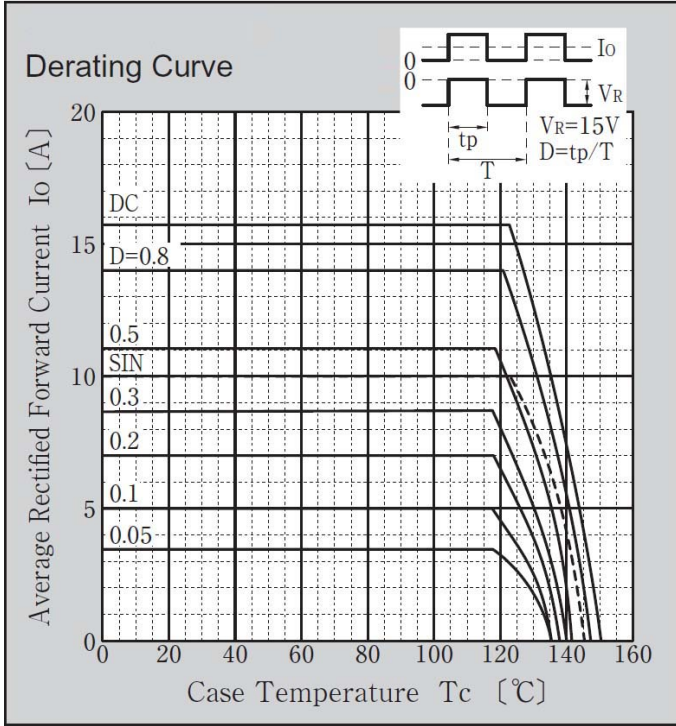


### Forward Power Dissipation

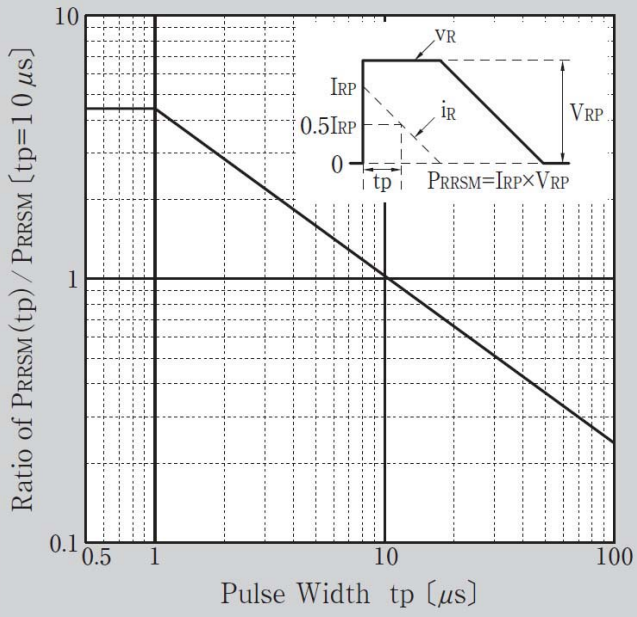


### Reverse Power Dissipation





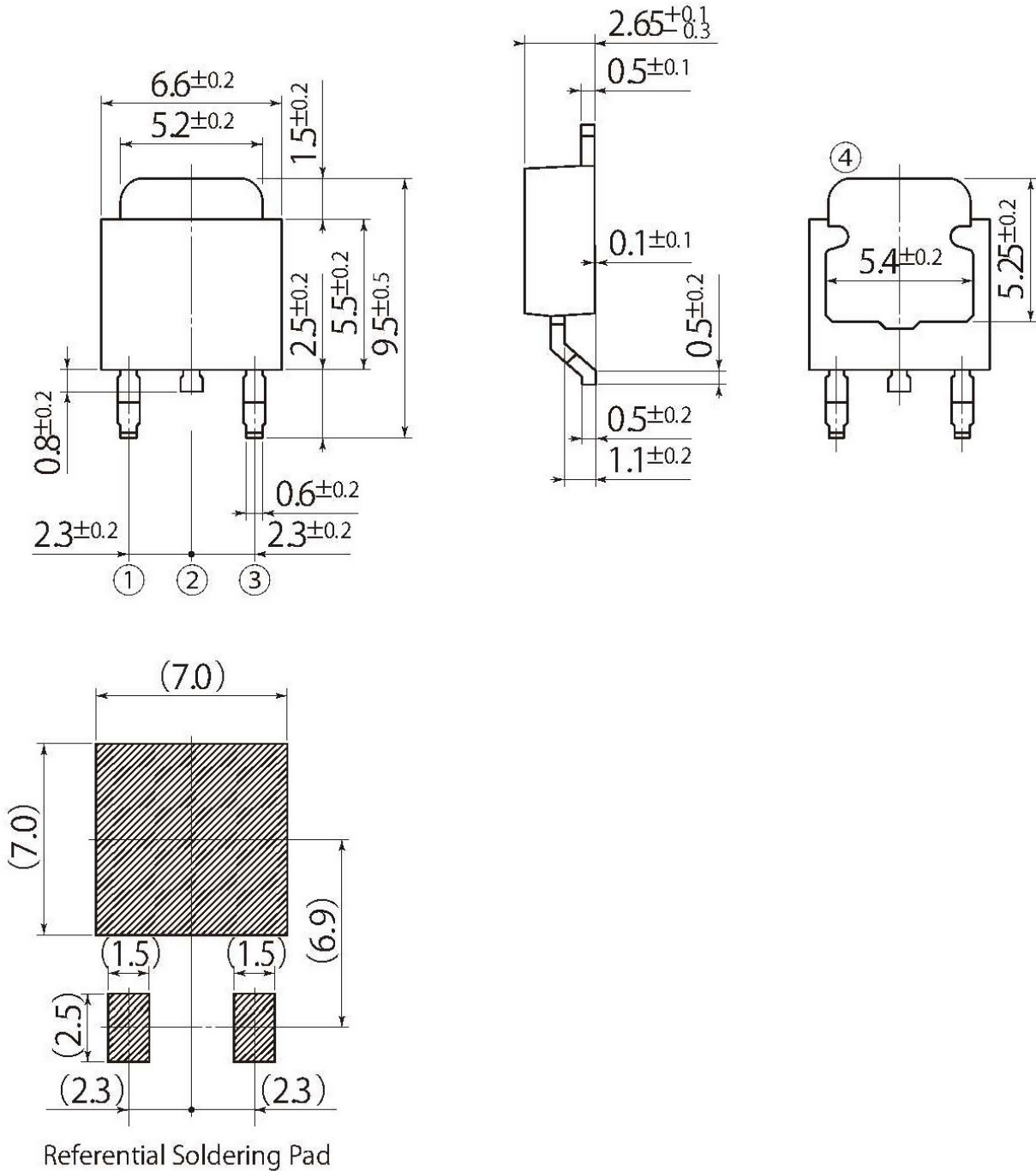
### Repetitive Surge Reverse Power Capability





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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