

DE3L20UA

Fast Recovery Diodes

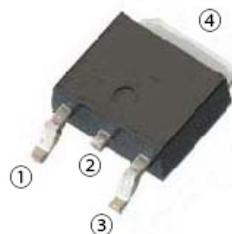
200V, 3A

Feature

- SMD
- High Recovery Speed
- 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}		200	V
Average forward current	$I_F(\text{AV})$	50Hz sine wave, Resistance load, $T_c=137^\circ\text{C}$	3	A
Average forward current	$I_F(\text{AV})$	50Hz sine wave, Resistance load, On alumina substrate, $T_a=25^\circ\text{C}$ ※	2.4	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, $T_j=25^\circ\text{C}$	60	A

※ :See the original Specifications

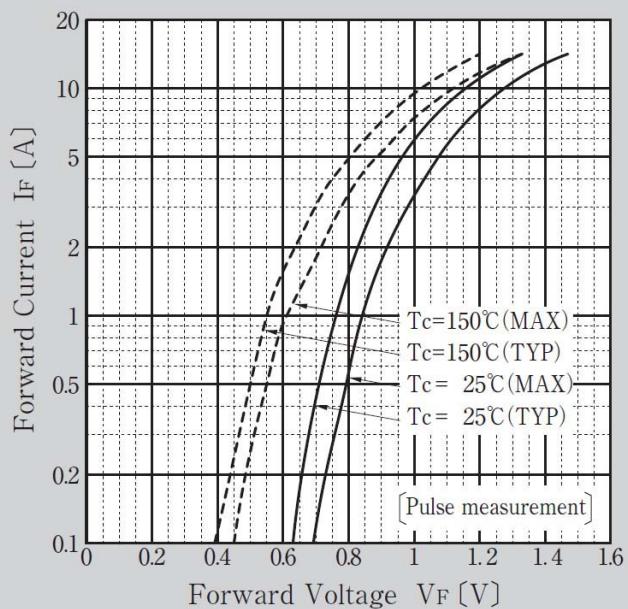
Electrical Characteristics (unless otherwise specified : $T_c=25^\circ\text{C}$)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$IF=3\text{A}$, Pulse measurement			0.98	V
Reverse current	I_R	$VR=200\text{V}$, Pulse measurement			10	μA
Reverse recovery time	trr	$IF=0.5\text{A}$, $IR=1\text{A}$			35	ns
Total capacitance	C_t	$f=1\text{MHz}$, $VR=10\text{V}$		56		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case			4	$^\circ\text{C}/\text{W}$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient			55	$^\circ\text{C}/\text{W}$

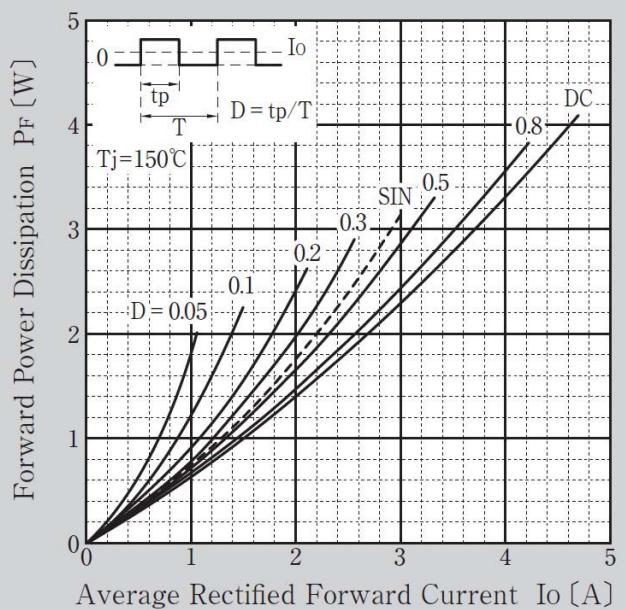
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

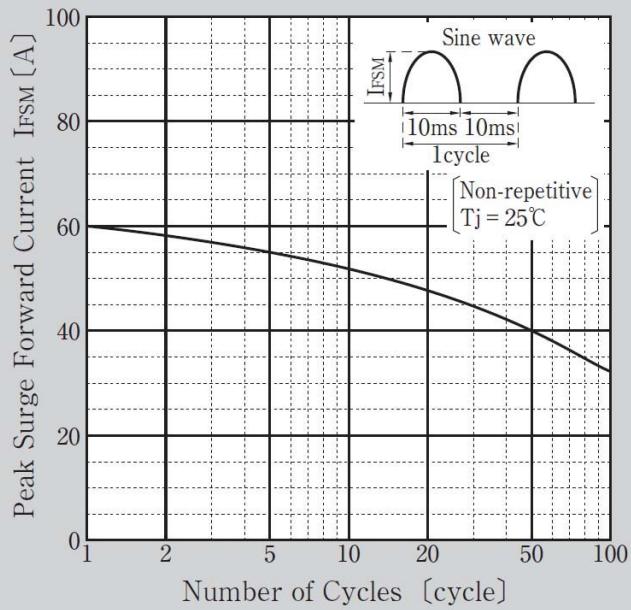
Forward Voltage



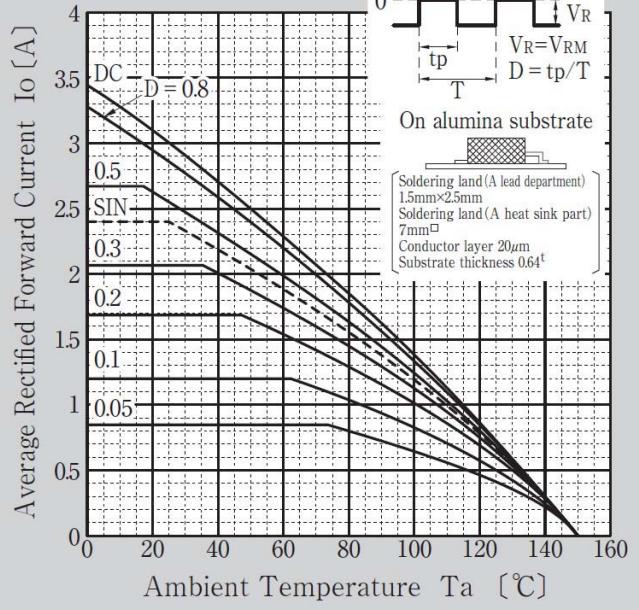
Forward Power Dissipation

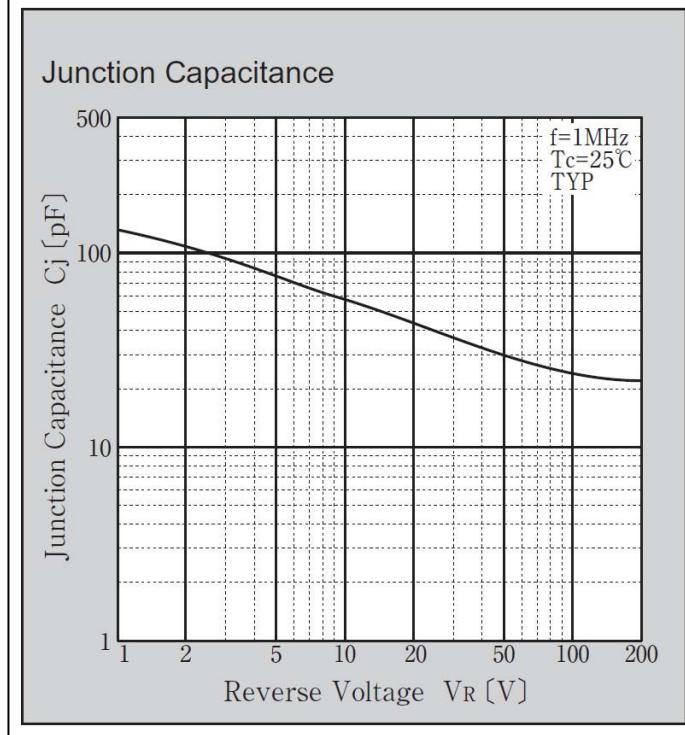
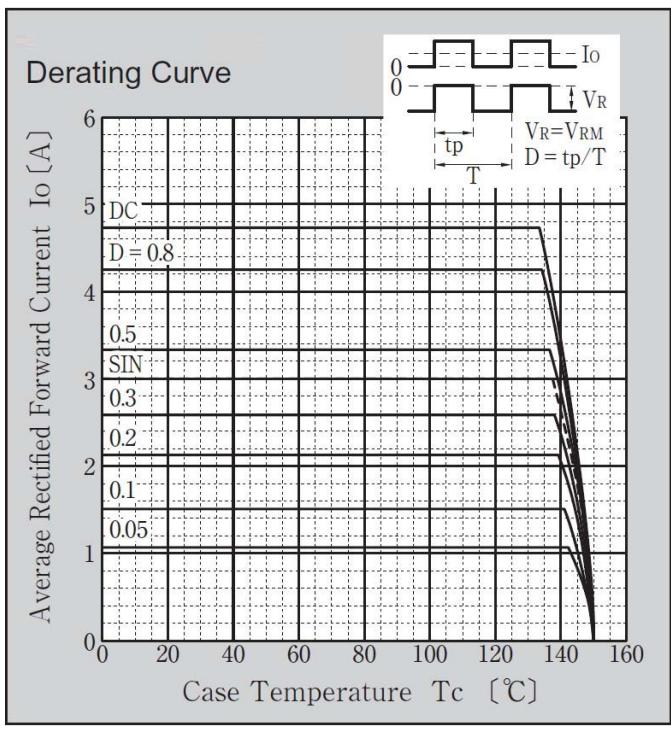


Peak Surge Forward Current Capability



Derating Curve





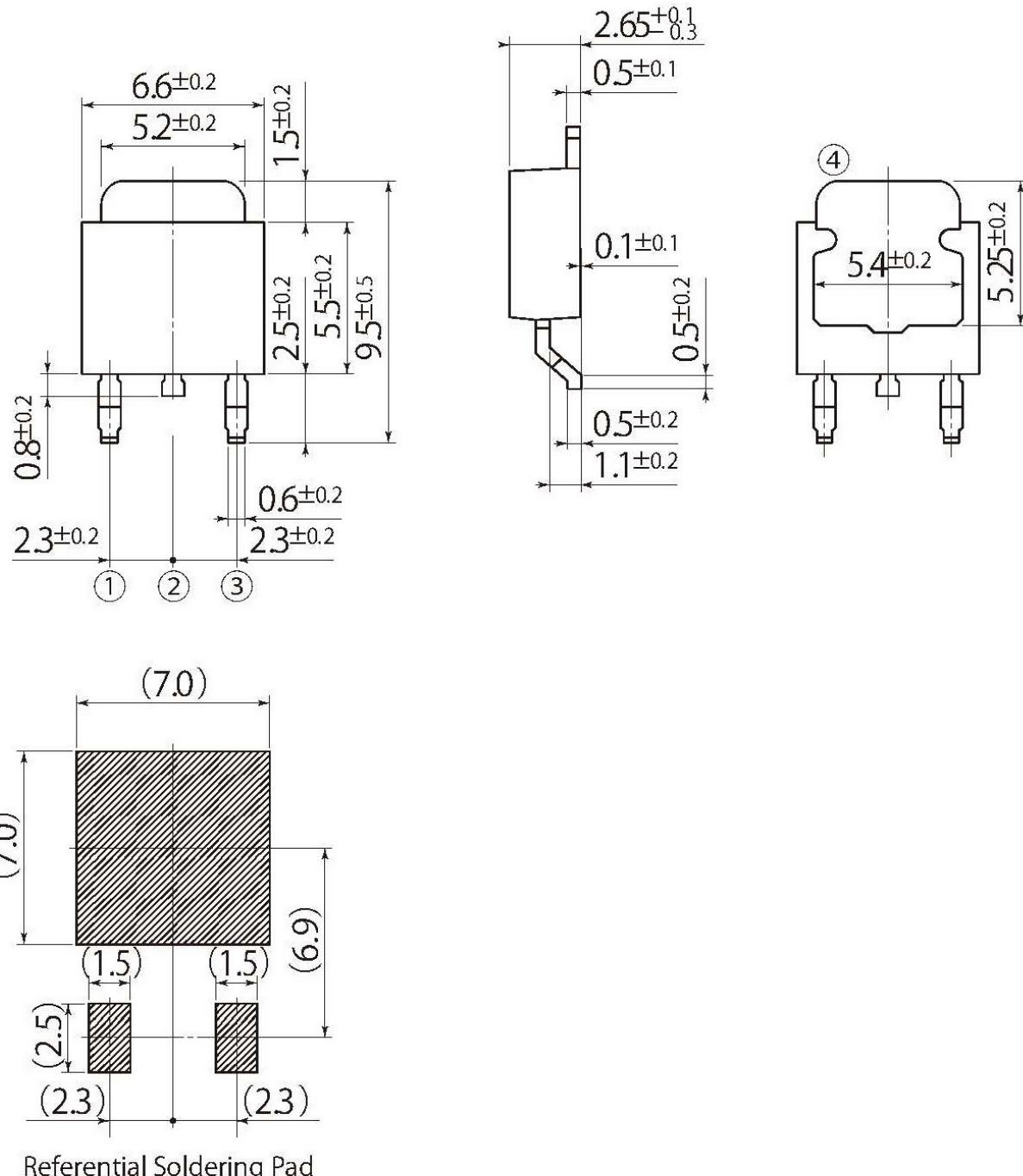
Outline Dimensions

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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【Standard applications】

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】

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