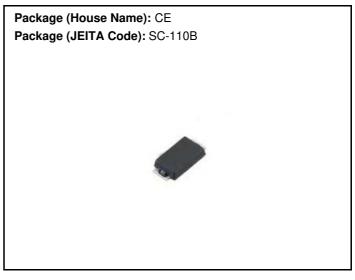
D3CE20LUS

Fast Recovery Diodes 200V, 3.0A

Feature

- Ultra-small SMD
- Ultra-thin PKG=1.0mm
- High Recovery Speed
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit

Absolute Maximum Ratings (unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		200	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, TI=105°C	3	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.3	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.96	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	А
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	100	A

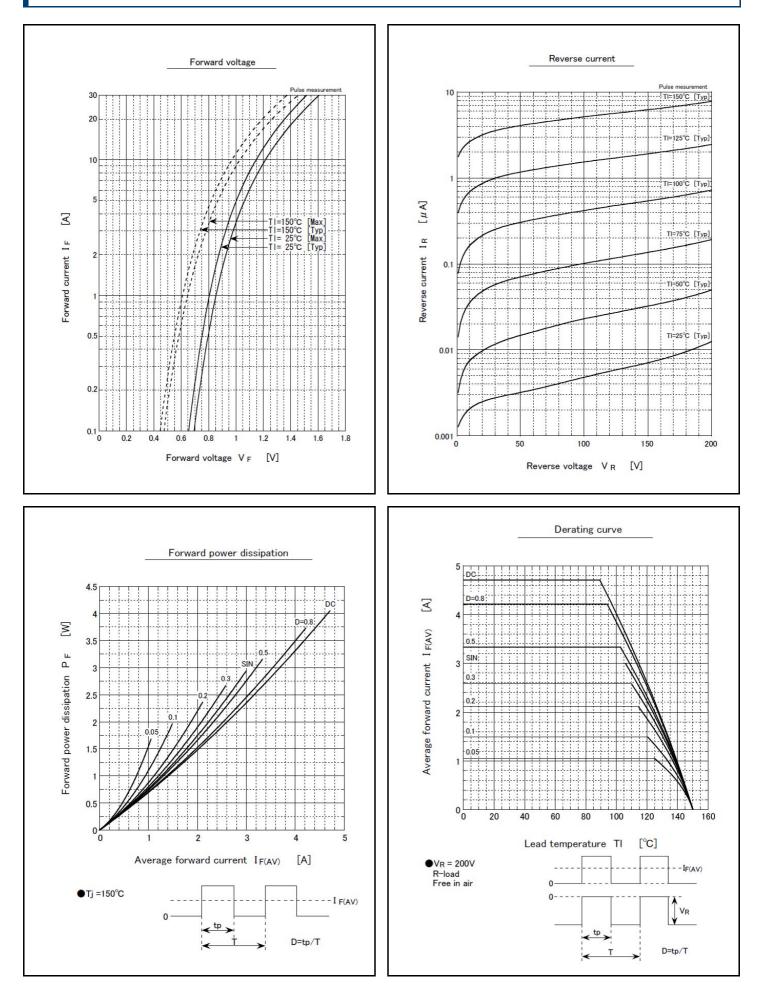
* : See the original Specifications

Electrical Characteristics (u	unless otherwise specified : TI=25°C)
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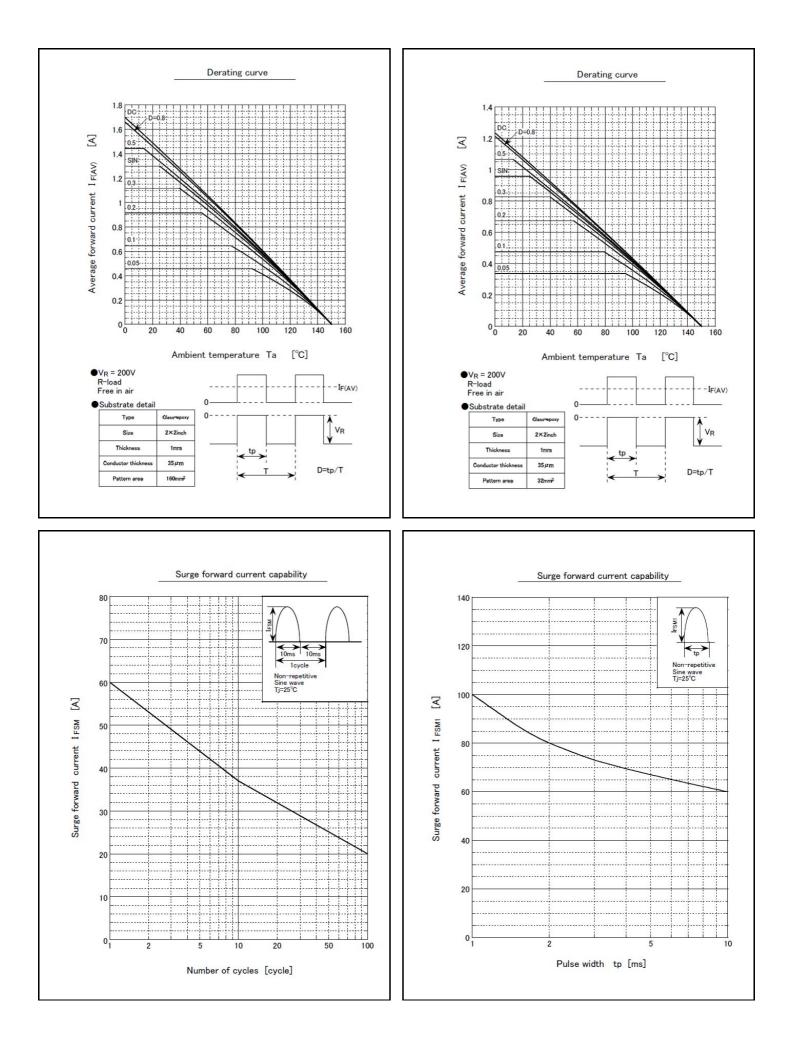
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=3A, Pulse measurement			0.98	V
Reverse current	I _R	VR=200V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			25	ns
Total capacitance	Ct	f=1MHz, VR=10V		27		pF
Thermal resistance	Rth(j-l)	Junction to lead			15	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			115	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			172	°C/W

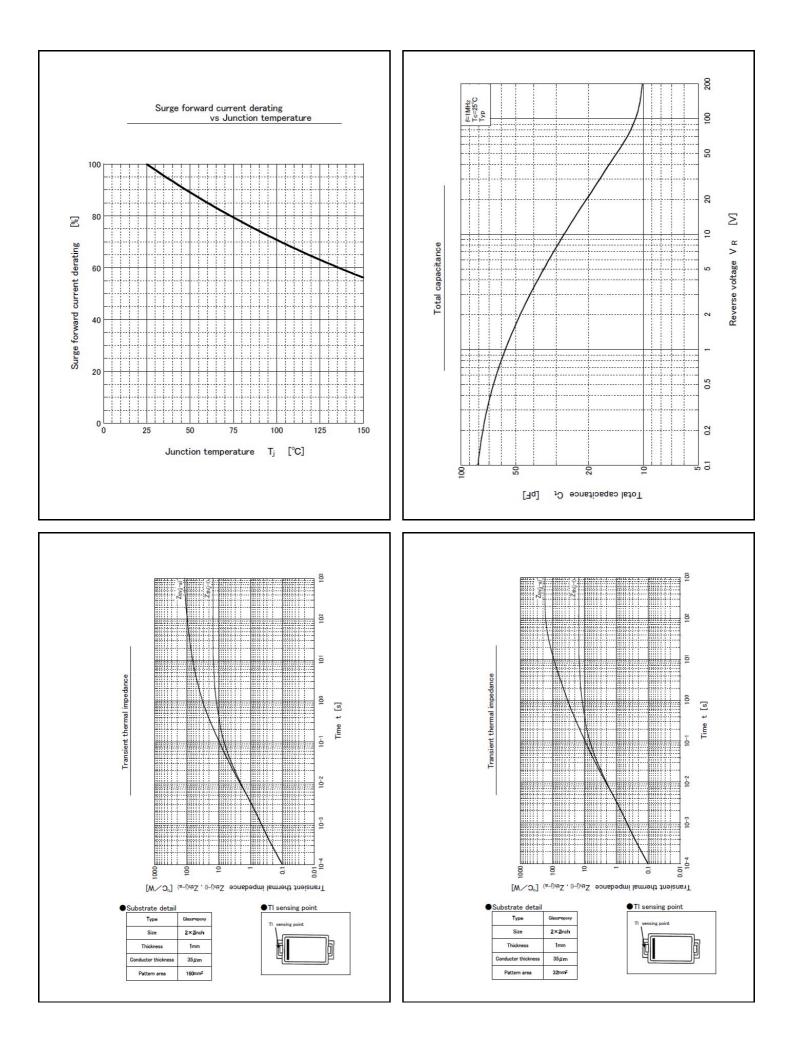
* :See the original Specifications

CHARACTERISTIC DIAGRAMS



3/7

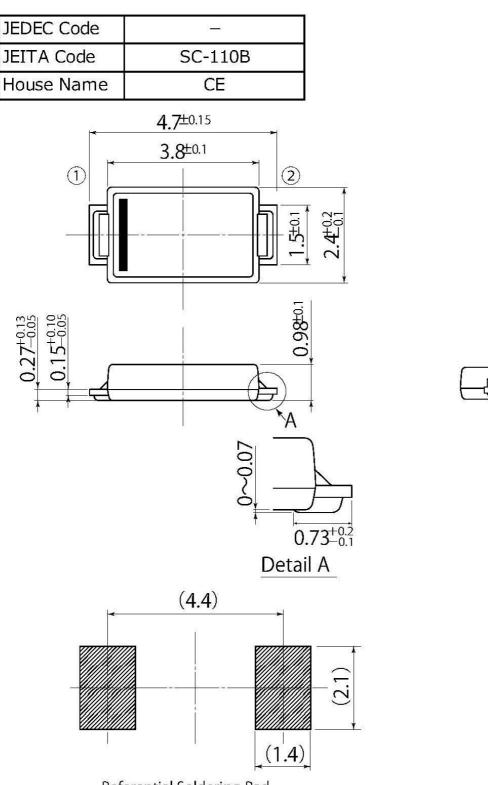




unit:mm

scale: 10/1

B5



Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

Notes

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[Special applications]

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

[Specific applications]

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