

DE5LC20U

Fast Recovery Diodes 200V, 5A

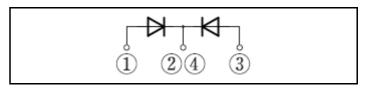
Feature

- SMD
- · High Recovery Speed
- 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}		200	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=81°C	5	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Rating for each diode IF(AV)/2, Ta=25°C	2.6	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	50	А

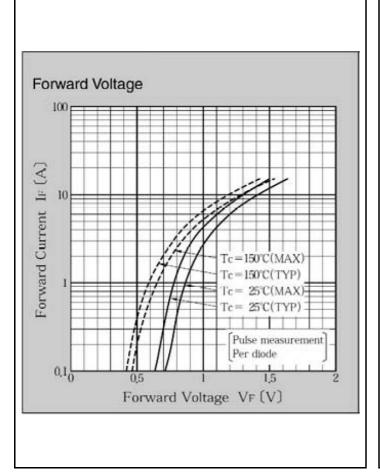
^{* :}See the original Specifications

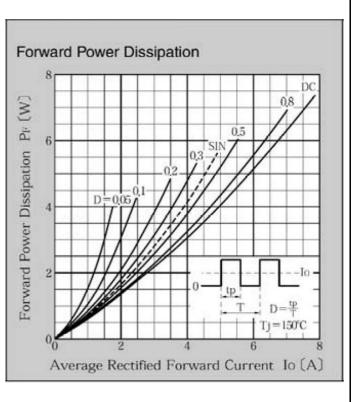
Electrical Characteristics (unless otherwise specified : Tc=25°C)

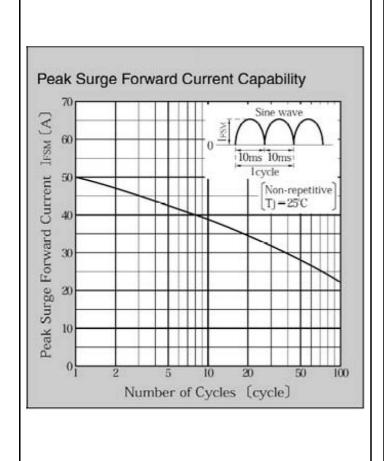
Item	Symbol	Conditions	Ratings			Unit
nom	Cymbol		MIN	TYP	MAX	0
Forward voltage	V _F	IF=2.5A, Pulse measurement, Per diode			0.98	V
Reverse current	I _R	VR=200V, Pulse measurement, Per diode			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1A, Per Diode			35	ns
Thermal resistance	Rth(j-c)	Junction to case			12	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			55	°C/W

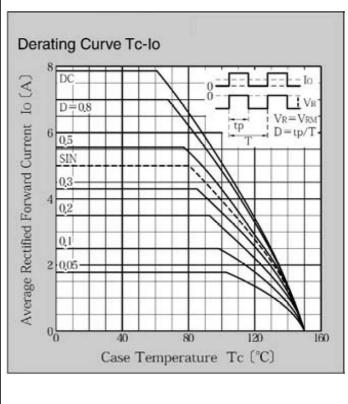
^{*} :See the original Specifications

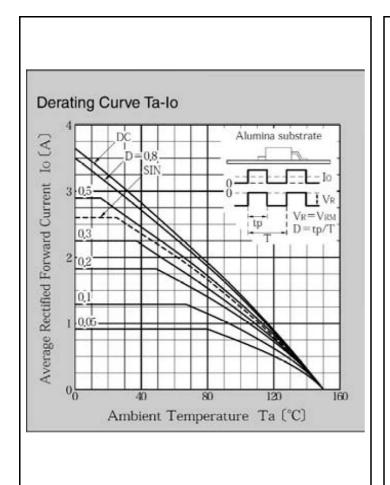
CHARACTERISTIC DIAGRAMS



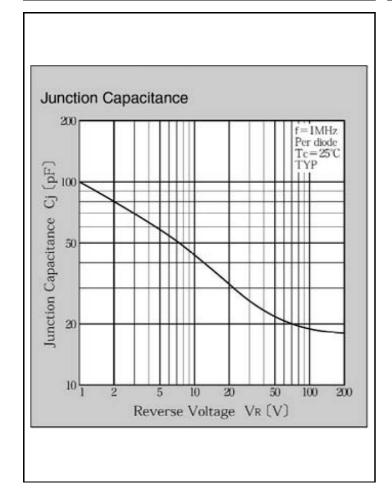








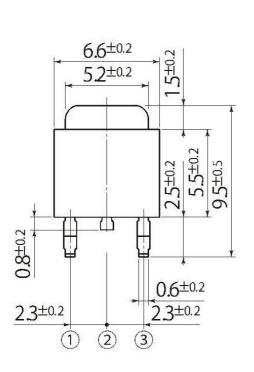
Soldering land of lead wire	1,5×2,5mm		
Soldering land of heatsink	7×7mm		
Conductor layer	20μm		
Substrate thickness	0,64mm		

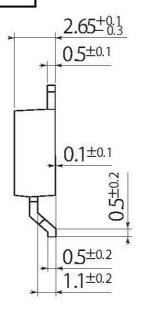


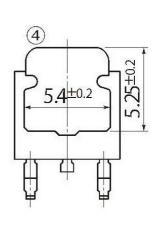
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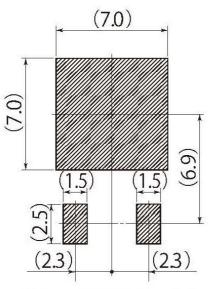
G1

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









Referential Soldering Pad

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

Notes

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(Special applications)

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