

## DE3S4M

# Schottky Barrier Diodes 40V, 3A

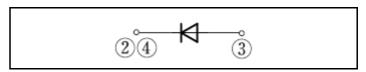
### **Feature**

- SMD
- · High Recovery Speed
- Low V<sub>F</sub>
- 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		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	$V_{RRM}$		40	V
Repetitive peak surge reverse voltage	V <sub>RRSM</sub>	Pulse width 0.5ms, duty=1/40	45	٧
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Tc=121°C	3	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=40°C 2.6		Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=125°C	70	Α
Repetitive peak surge reverse power	P <sub>RRSM</sub>	Pulse width 10μs, Tj=25°C	330	

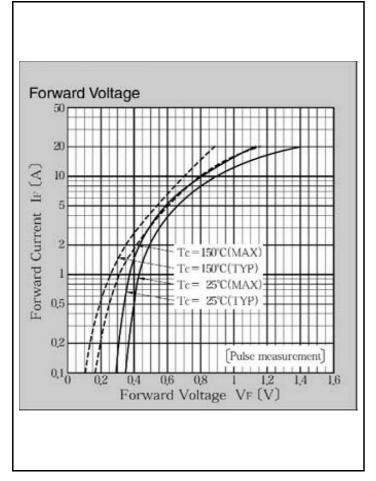
<sup>\* :</sup>See the original Specifications

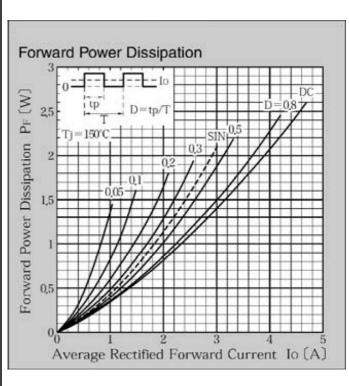
## **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

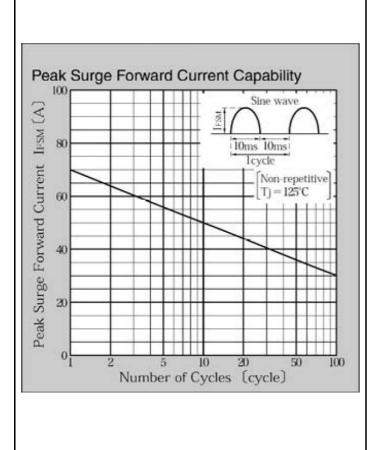
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V <sub>F</sub>	IF=3A, Pulse measurement			0.55	V
Reverse current	I <sub>R</sub>	VR=40V, Pulse measurement			2.5	mA
Total capacitance	Ct	f=1MHz, VR=10V		150		pF
Thermal resistance	Rth(j-c)	Junction to case			12	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate			55	°C/W

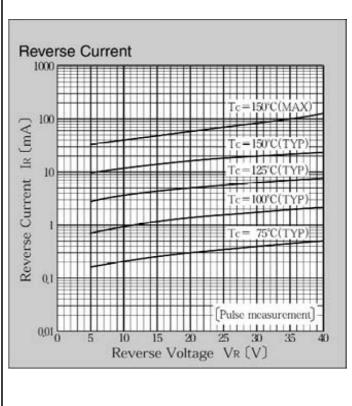
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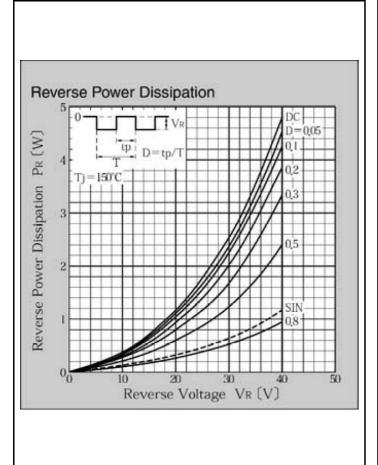
## **CHARACTERISTIC DIAGRAMS**

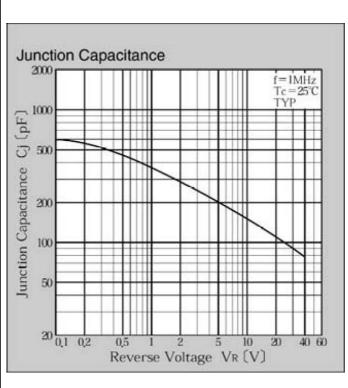


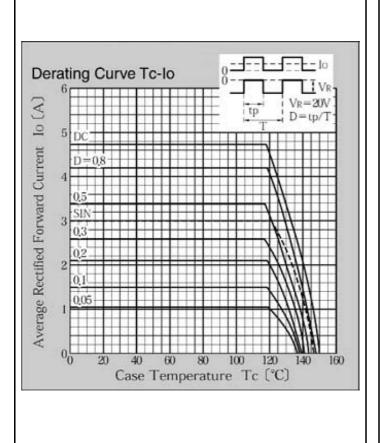


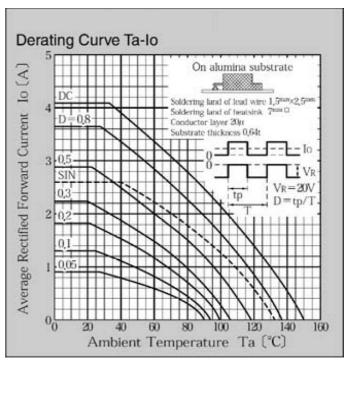


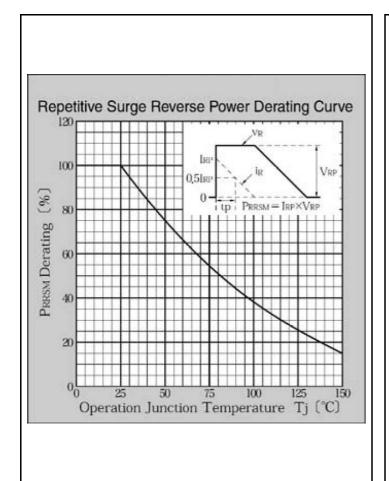


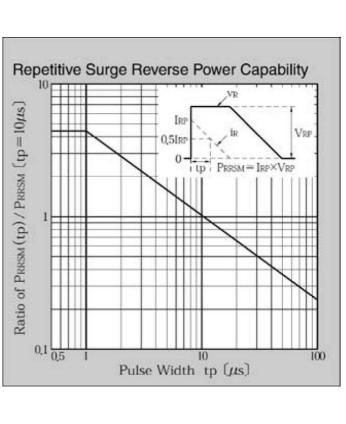








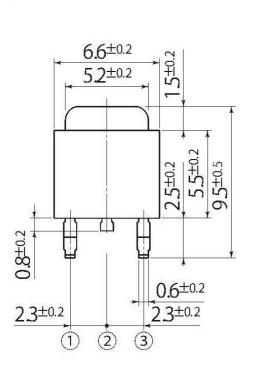


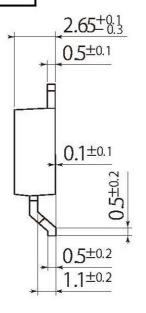


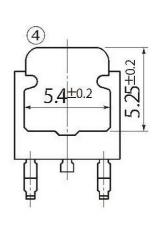
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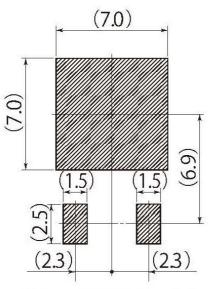
G1

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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