

# DE5VE40

# General Rectifying Diodes 400V, 5A

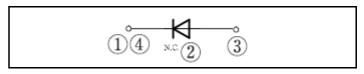
#### **Feature**

- SMD
- · Pb free terminal
- RoHS:Yes

### **OUTLINE**



# **Equivalent circuit**



### **Absolute Maximum Ratings** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	$V_{RRM}$		400	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Tc=130°C	5	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	80	Α
Current squared time	l <sup>2</sup> t	1ms≦tp<10ms, Tc=25°C	32	A <sup>2</sup> s

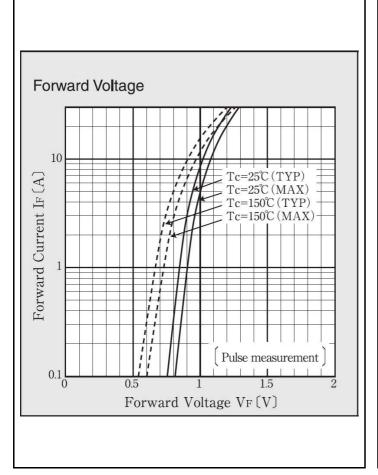
<sup>\* :</sup>See the original Specifications

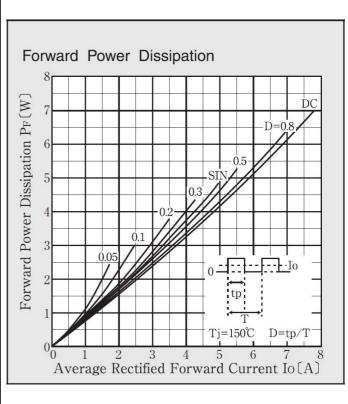
# **Electrical Characteristics** (unless otherwise specified : TI=25°C)

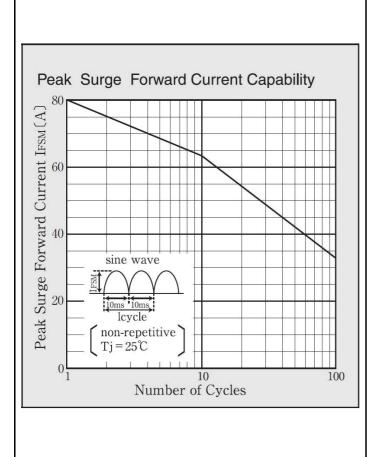
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Forward voltage	V <sub>F</sub>	IF=5A, Pulse measurement			1	V
Reverse current	I <sub>R</sub>	VR=400V, Pulse measurement			10	μΑ
Electro static dischange Capability	V <sub>ESD</sub>	C=150pF, R=150Ω, Polarity±, Aerial discharge		30		kV
Thermal resistance	Rth(j-c)	Junction to case			4	°C/W

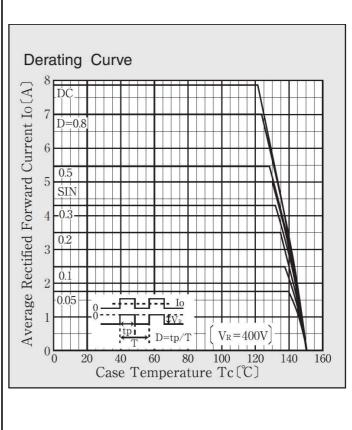
<sup>\* :</sup> See the original Specifications

# **CHARACTERISTIC DIAGRAMS**





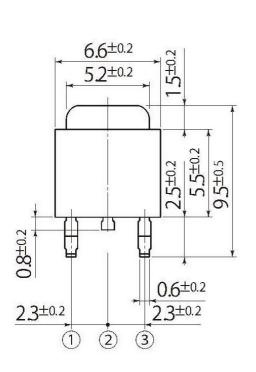


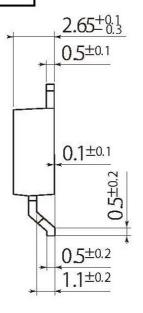


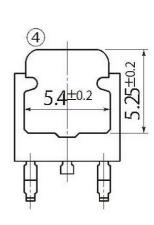
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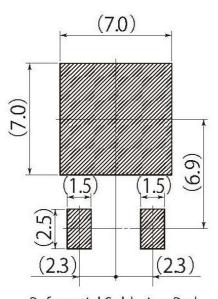
G1

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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#### (Special applications)

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#### (Specific applications)

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