

# DE5VE40

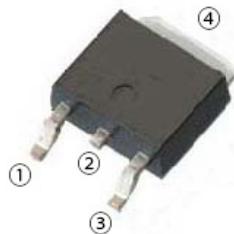
General Rectifying Diodes  
400V, 5A

## Feature

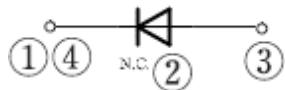
- SMD
- Pb free terminal
- RoHS:Yes

## OUTLINE

Package (House Name): E-pack  
Package (JEITA Code): SC-63



## Equivalent circuit



## Absolute Maximum Ratings (unless otherwise specified : $T_l=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	$T_{stg}$		-55 to 150	°C
Junction temperature	$T_j$		150	°C
Repetitive peak reverse voltage	$V_{RRM}$		400	V
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, $T_c=130^\circ\text{C}$	5	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	80	A
Current squared time	$I^2t$	$1\text{ms} \leq t_p < 10\text{ms}$ , $T_c=25^\circ\text{C}$	32	$\text{A}^2\text{s}$

※ :See the original Specifications

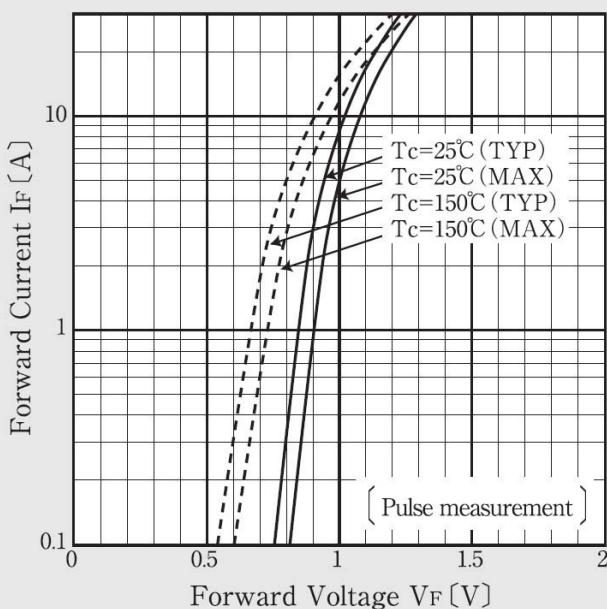
## Electrical Characteristics (unless otherwise specified : $T_l=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$I_F=5\text{A}$ , Pulse measurement			1	V
Reverse current	$I_R$	$VR=400\text{V}$ , Pulse measurement			10	$\mu\text{A}$
Electro static discharge Capability	$V_{ESD}$	$C=150\text{pF}$ , $R=150\Omega$ , Polarity $\pm$ , Aerial discharge		30		kV
Thermal resistance	$R_{th(j-c)}$	Junction to case			4	$^\circ\text{C}/\text{W}$

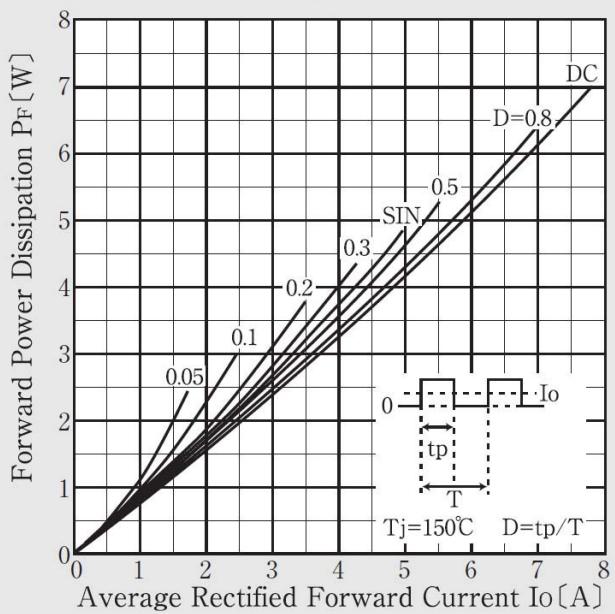
※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS

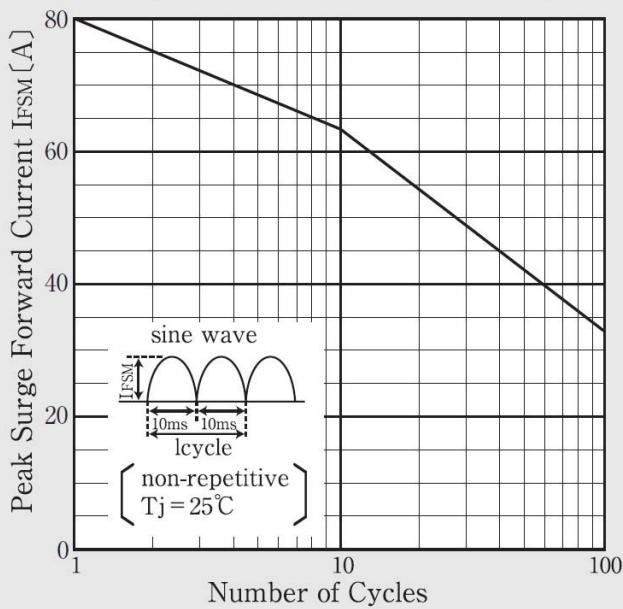
Forward Voltage



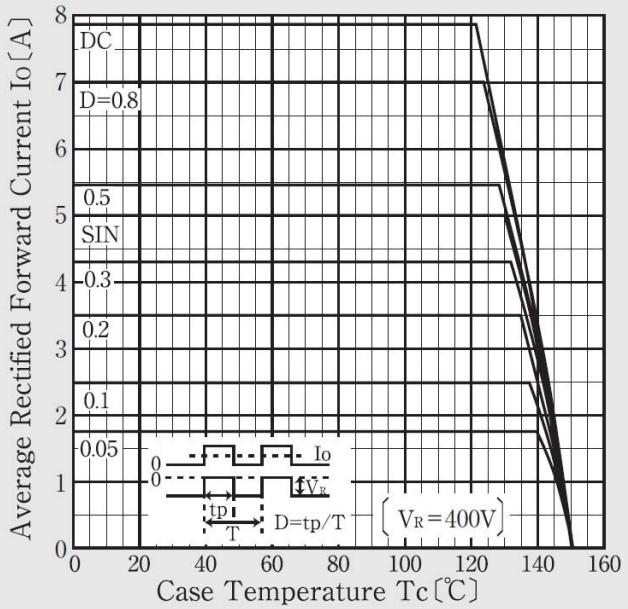
Forward Power Dissipation



Peak Surge Forward Current Capability



Derating Curve



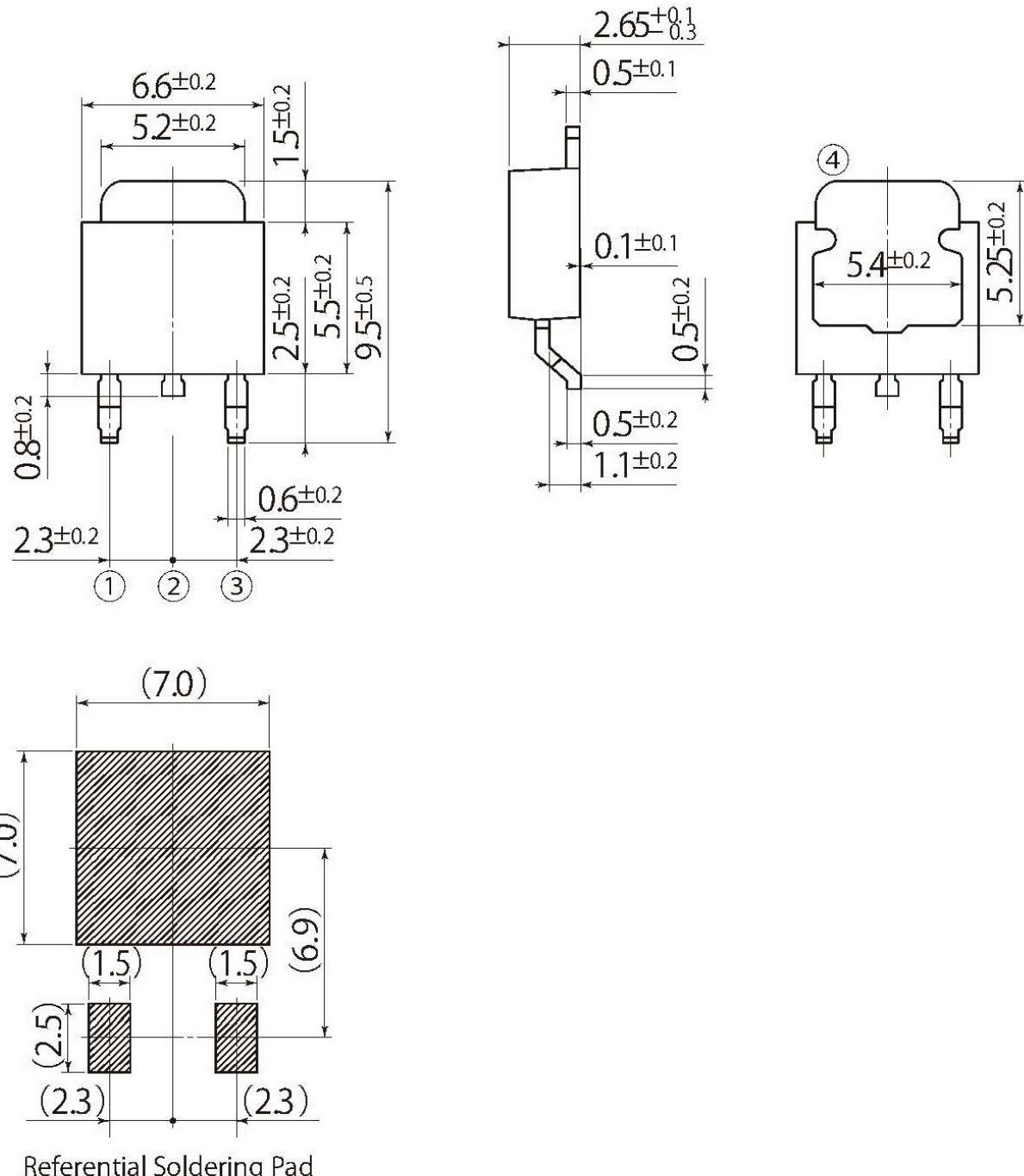
## Outline Dimensions

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

1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
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### 【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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