

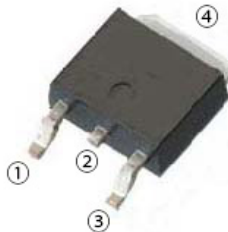
DE5VE40
General Rectifying Diodes
400V, 5A

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 : Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	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, $T_c=130^{\circ}C$	5	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}C$	80	A
Current squared time	I^2t	$1ms \leq t_p < 10ms$, $T_c=25^{\circ}C$	32	A ² s

※ :See the original Specifications

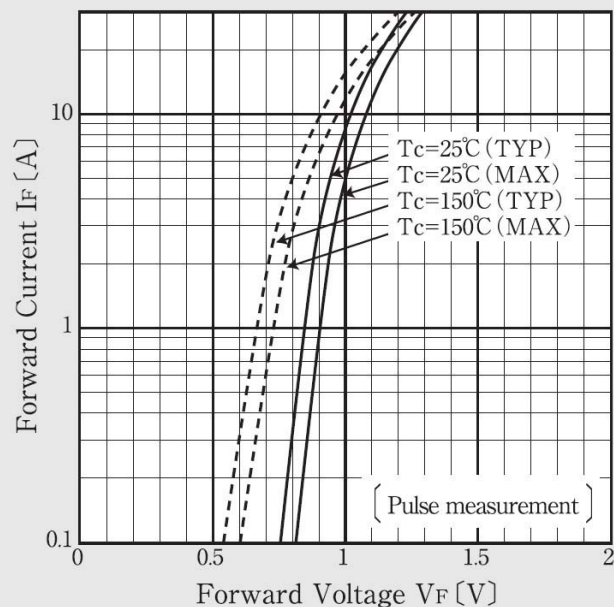
Electrical Characteristics (unless otherwise specified : Tl=25°C)

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

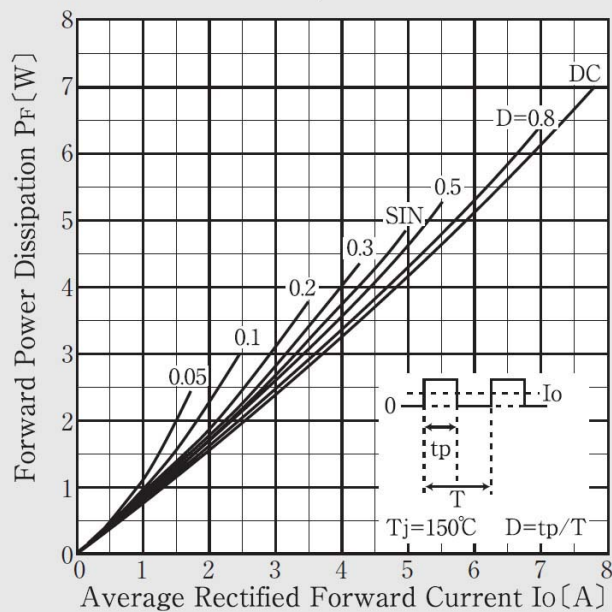
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

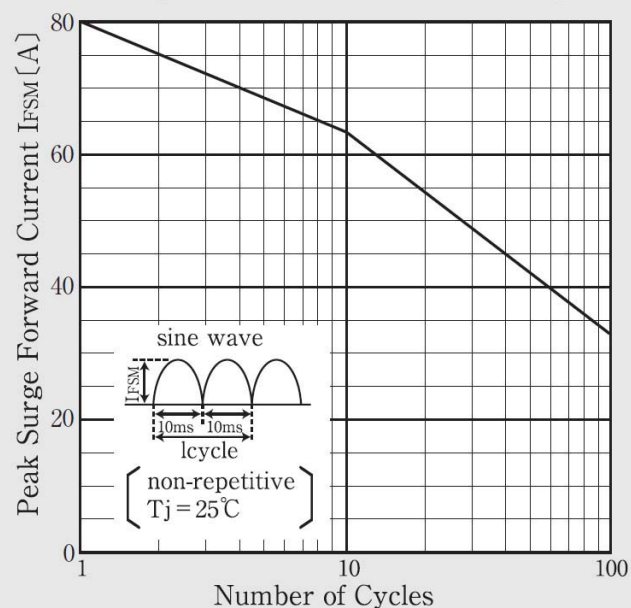
Forward Voltage



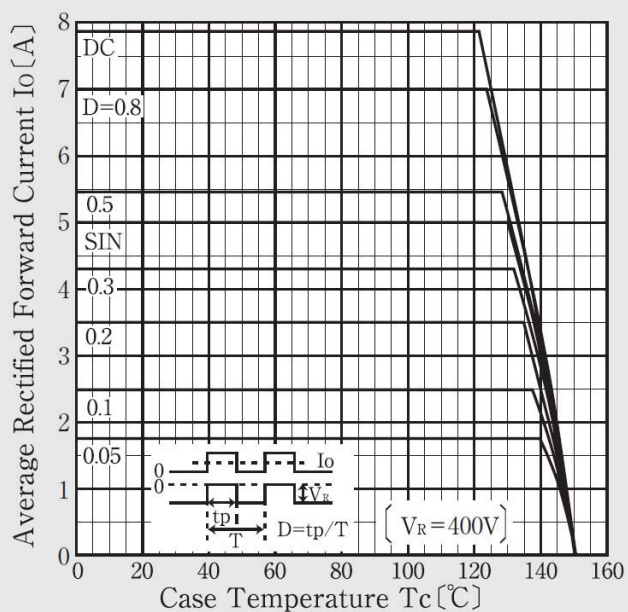
Forward Power Dissipation



Peak Surge Forward Current Capability

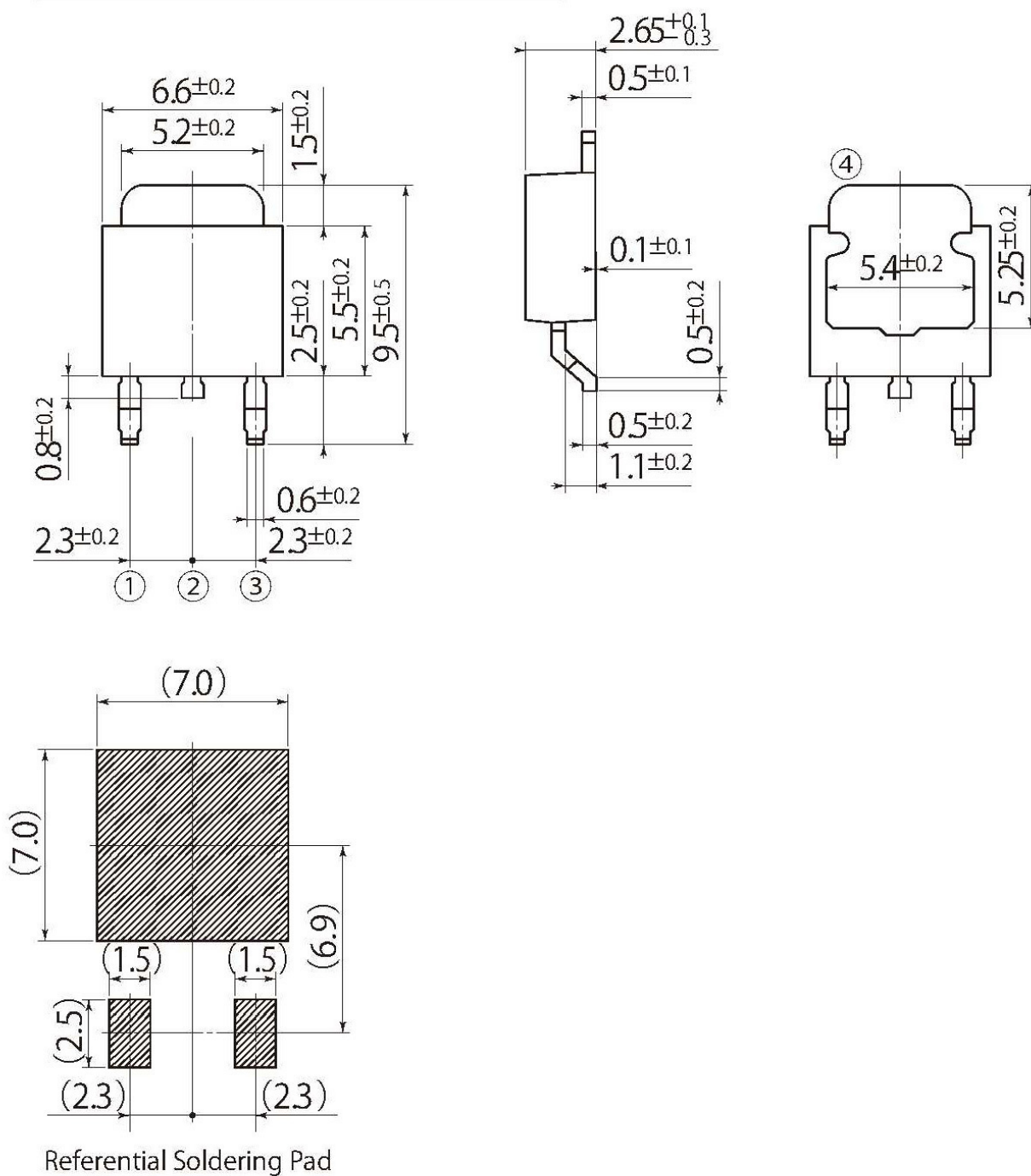


Derating Curve



G1

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



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

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