

D6FEC10ST

Schottky Barrier Diodes 100V, 6A

Feature

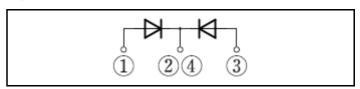
- SMD
- Tj=175°C
- Ultra low IR
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FE
Package (JEDEC Code): TO-252AB similar
Package (JEITA Code): SC-63



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 175	°C
Junction temperature	Tj		-55 to 175	°C
Repetitive peak reverse voltage	V_{RRM}		100	٧
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=154°C *	6	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	100	Α
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	180	Α

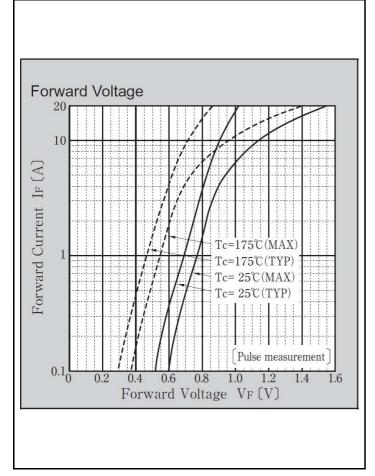
^{* :} See the original Specifications

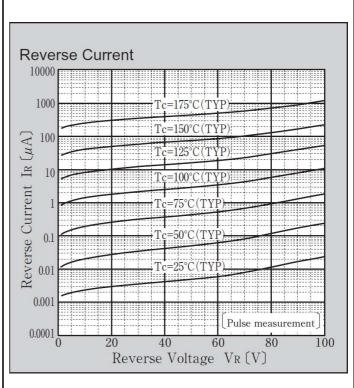
Electrical Characteristics (unless otherwise specified : Tc=25°C)

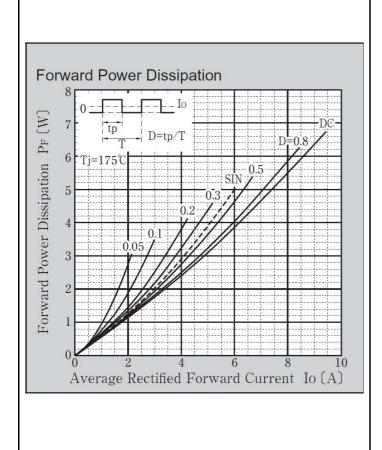
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=3A, Pulse measurement, per diode			0.86	V
Reverse current	I _R	VR=100V, Pulse measurement, per diode			0.008	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		60		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink *			4	°C/W

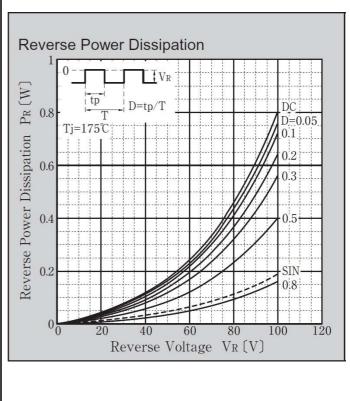
^{*} :See the original Specifications

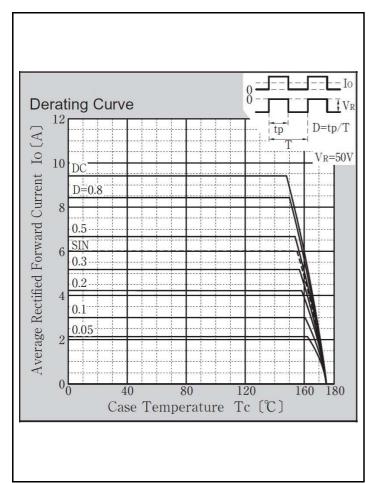
CHARACTERISTIC DIAGRAMS

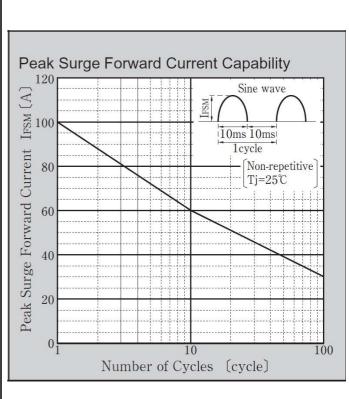


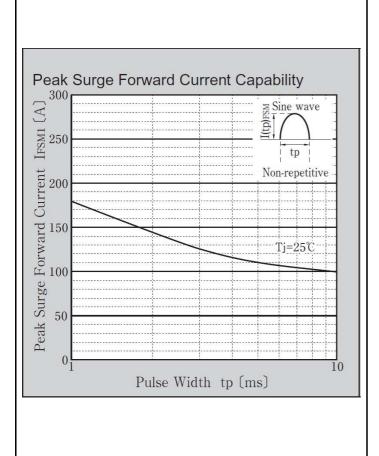


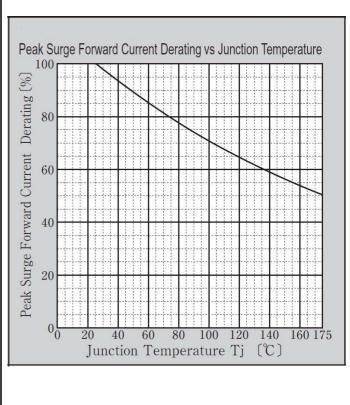


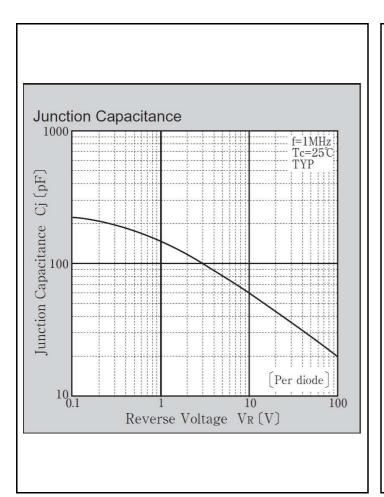


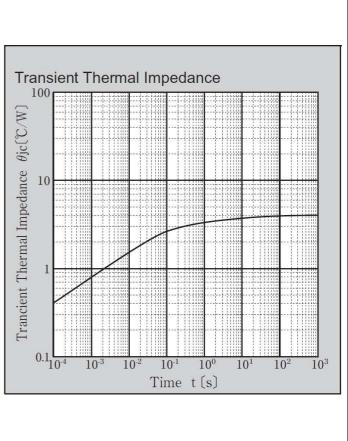








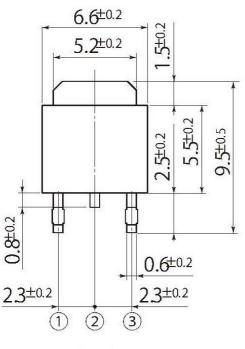


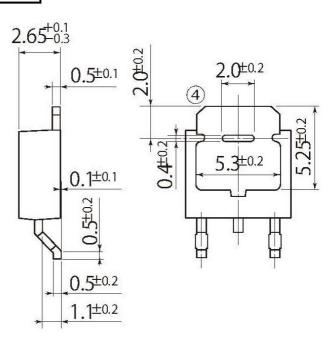


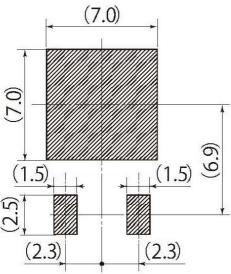
scale: 4/1

G3

JEDEC Code	TO-252AB similar			
JEITA Code	SC-63			
House Name	FE			







Referential Soldering Pad

 $[\]bullet$ Optimize soldering pad to the board design and soldering condition.

Notes

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(Special applications)

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