

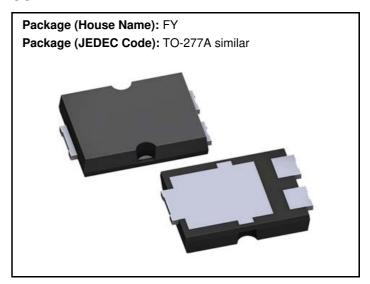
D5FY10SY

Schottky Barrier Diodes 100V, 5A

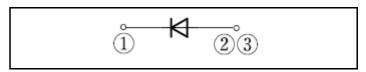
Feature

- Permit high current with a small package
- Based on AEC-Q101
- · Halogen free
- · Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 175	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		100	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink ,TI=132°C *	5	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	2.4	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	2.2	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	130	Α

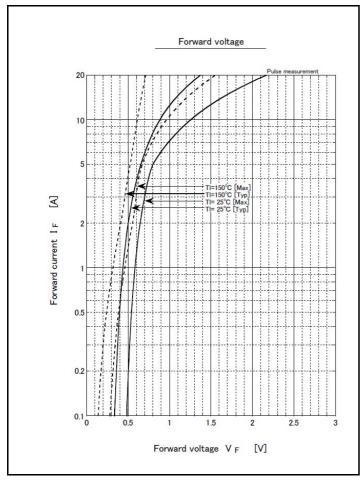
^{* :} See the original Specifications

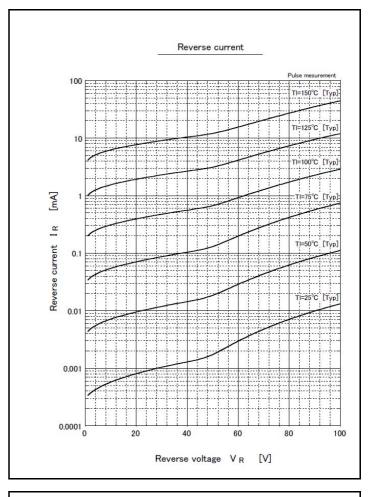
Electrical Characteristics (unless otherwise specified : TI=25°C)

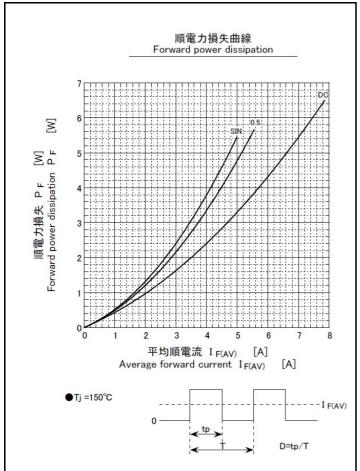
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oint
Forward voltage	V _F	IF=5A, Pulse measurement			0.8	V
Reverse current	I _R	VR=100V, Pulse measurement			0.2	mA
Total capacitance	Ct	f=1MHz, VR=10V		141		pF
Thermal resistance	Rth(j-l)	Junction to lead, With heatsink *			3	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *			60	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			65	°C/W

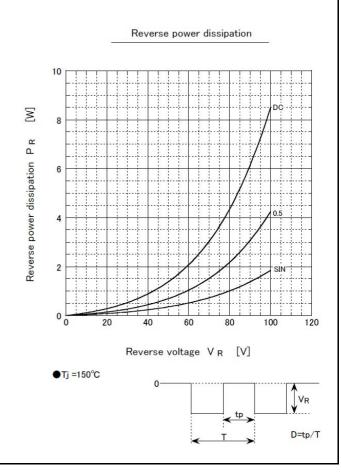
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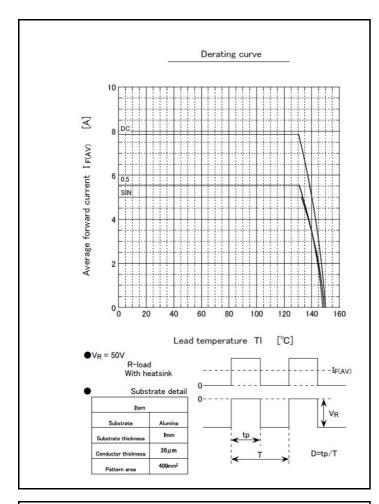
CHARACTERISTIC DIAGRAMS

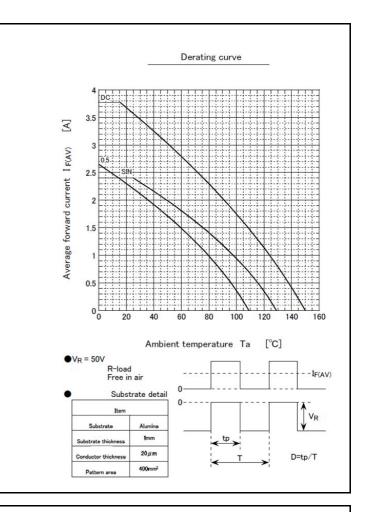


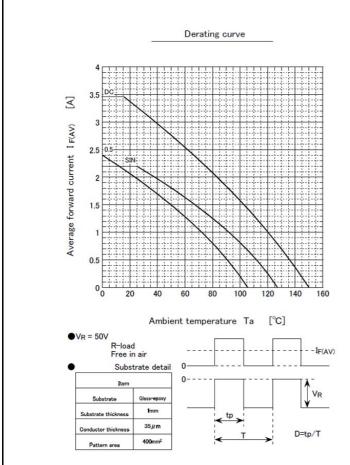


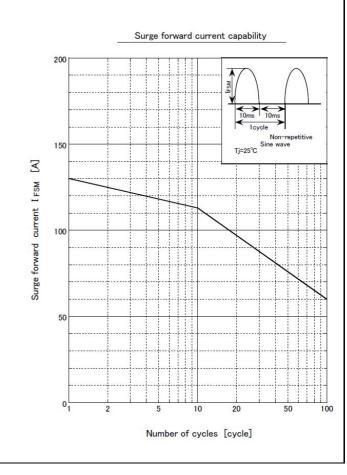


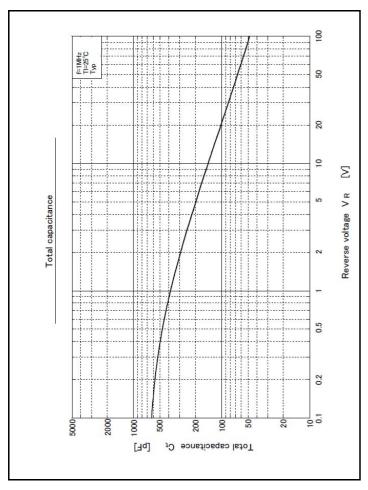


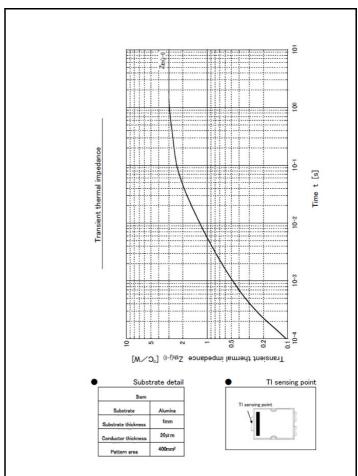


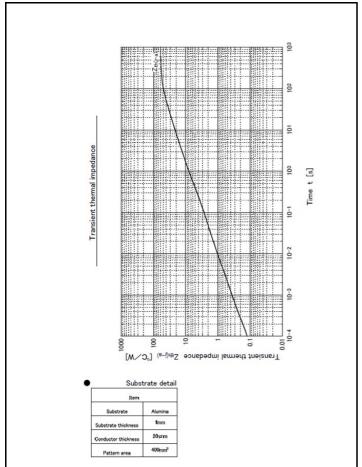


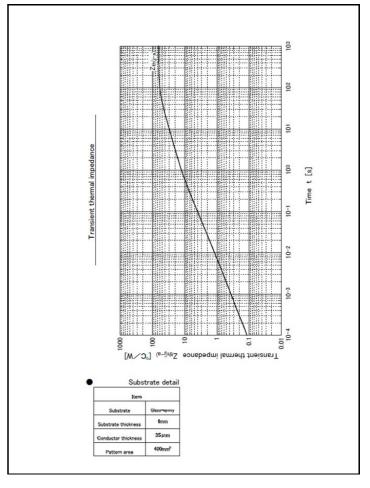






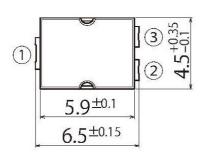


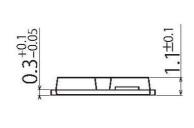


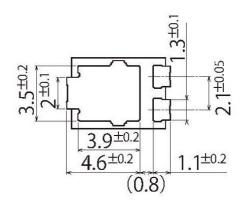


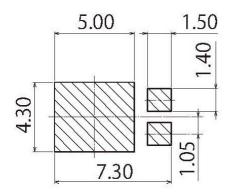
G4

JEDEC Code	TO-277A similar		
JEITA Code	_		
House Name	FY		









Referential Soldering Pad

Notes

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[Special applications]

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