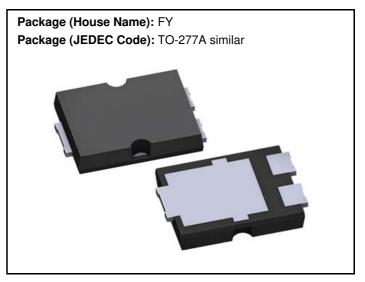
D5FY6SY Schottky Barrier Diodes 60V, 5A

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}		60	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink ,TI=138°C *	5	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	2.9	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	2.7	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	210	А

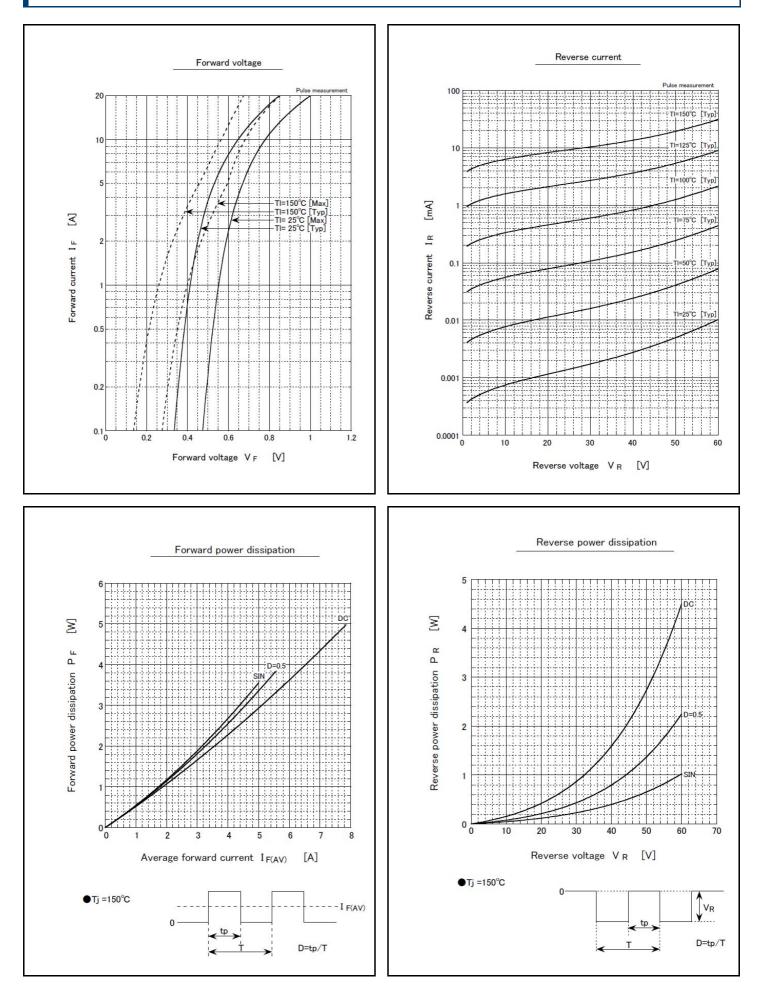
* : See the original Specifications

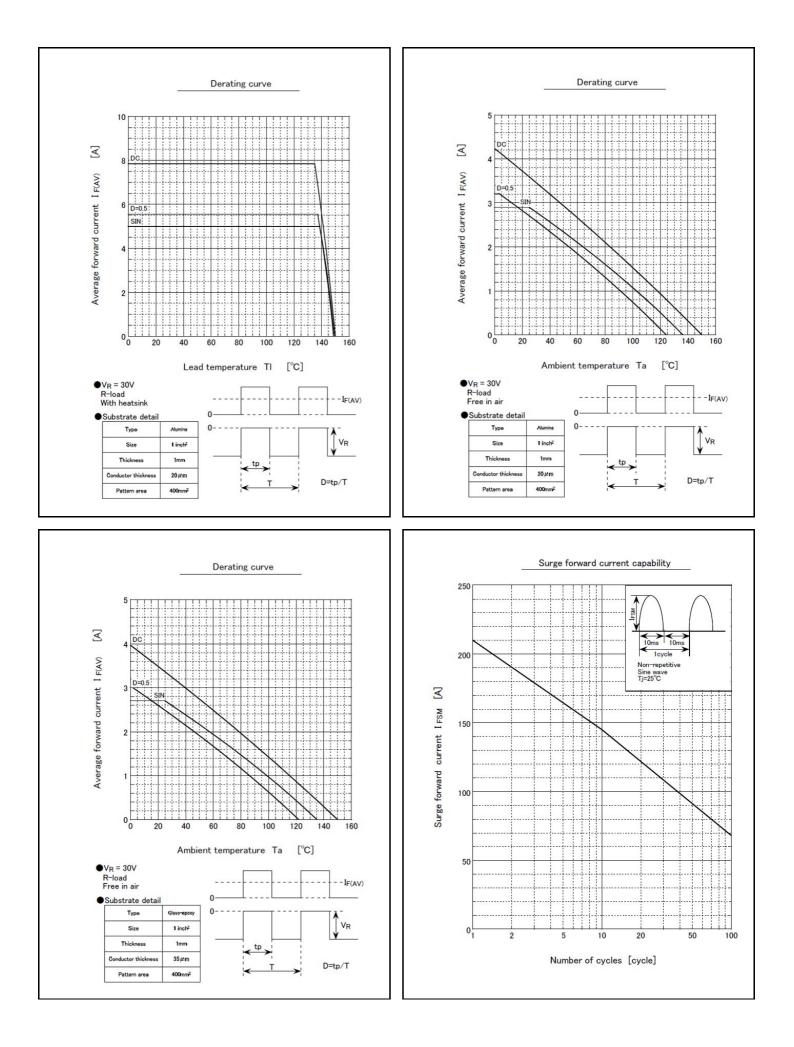
Electrical Characteristics	(unless otherwise specified : TI=25°C)
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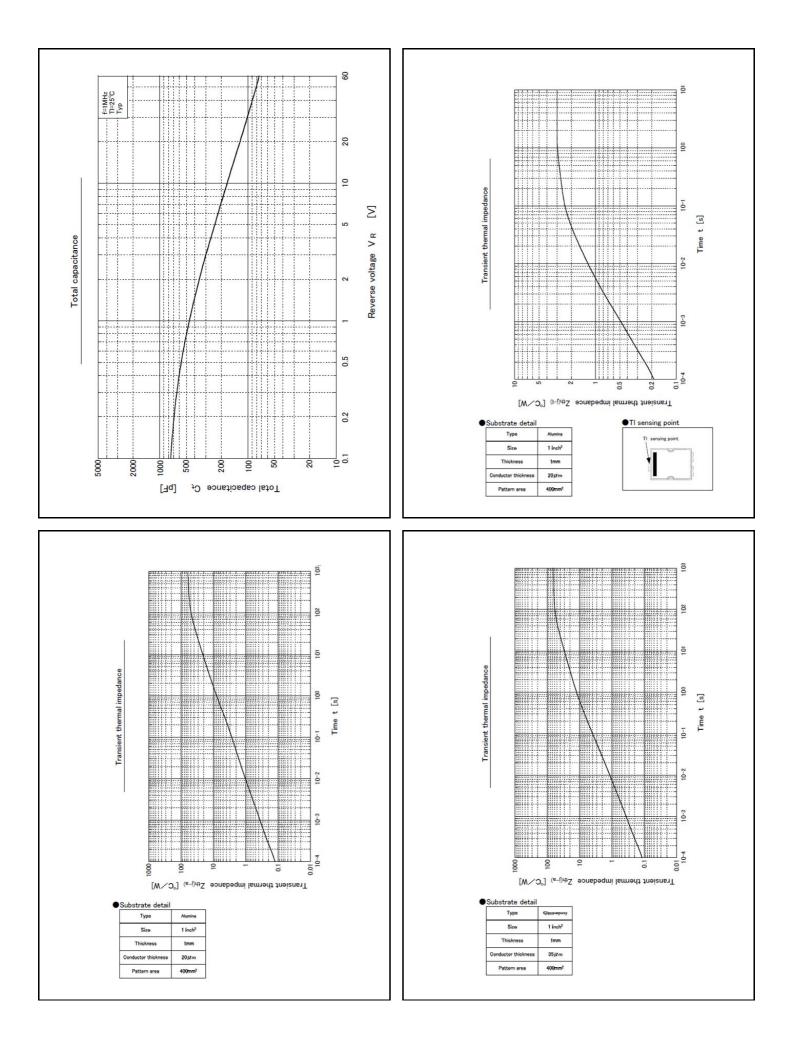
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=5A, Pulse measurement			0.67	V
Reverse current	I _R	VR=60V, Pulse measurement			0.2	mA
Total capacitance	Ct	f=1MHz, VR=10V		170		pF
Thermal resistance	Rth(j-l)	Junction to lead, With heatsink *			3	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *			60	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate * 6		65	°C/W	

* : See the original Specifications

CHARACTERISTIC DIAGRAMS



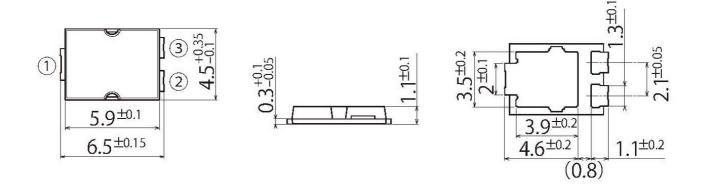


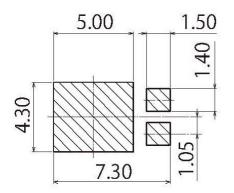


D5FY6SY_Rev.03(2021.10)

unit:mm

G4	JEDEC Code	TO-277A similar		
	JEITA Code	-		
	House Name	FY		





Referential Soldering Pad

Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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