

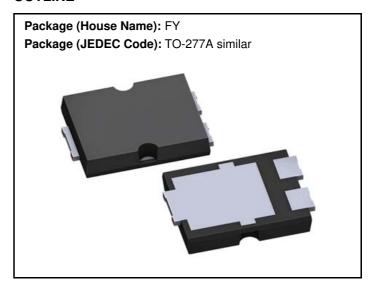
## D10FY6ST

# **Schottky Barrier Diodes 60V, 10A**

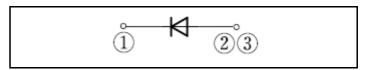
## **Feature**

- Permit high current with a small package
- Tj=175°C
- Ultra low IR
- · Based on AEC-Q101
- · Halogen free
- Pb free terminal
- RoHS:Yes

## **OUTLINE**



## **Equivalent circuit**



## Absolute Maximum Ratings (unless otherwise specified : Tl=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	$V_{RRM}$		60	٧
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink ,TI=154°C *	10	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	4.1	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	3.9	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	230	Α

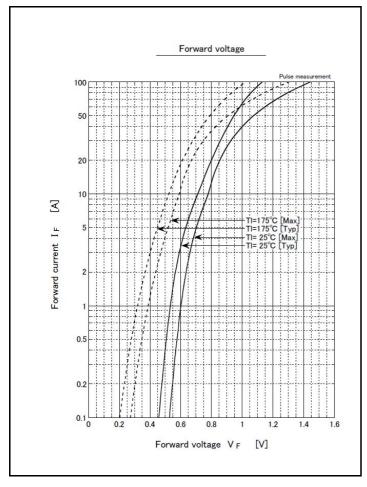
<sup>\* :</sup> See the original Specifications

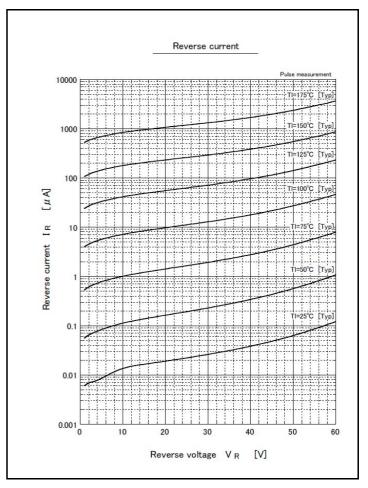
## **Electrical Characteristics** (unless otherwise specified : TI=25°C)

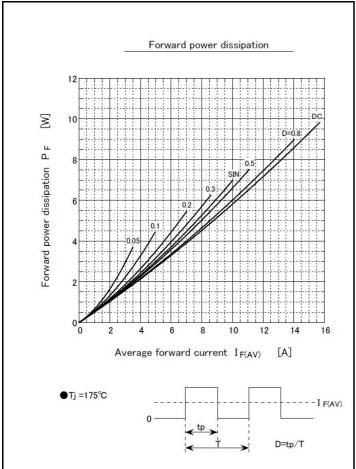
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V <sub>F</sub>	IF=10A, Pulse measurement			0.78	V
Reverse current	I <sub>R</sub>	VR=60V, Pulse measurement			0.03	mA
Total capacitance	Ct	f=1MHz, VR=10V		263		pF
Thermal resistance	Rth(j-l)	Junction to lead, With heatsink *			2.9	°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

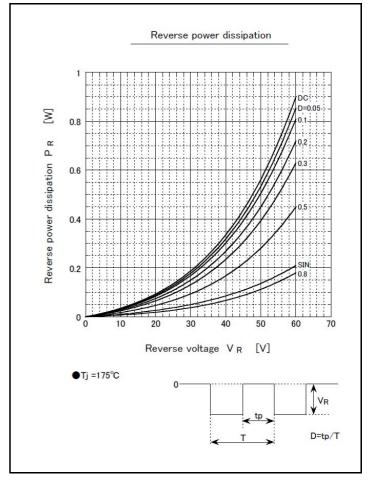
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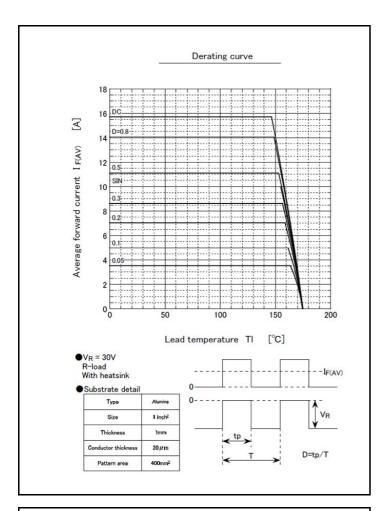
## **CHARACTERISTIC DIAGRAMS**

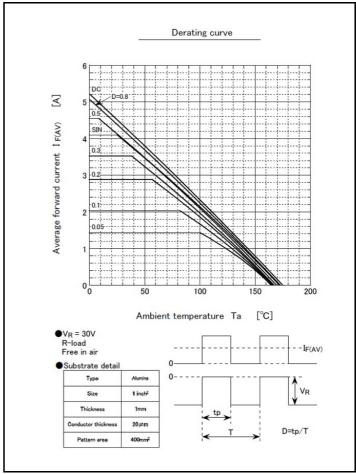


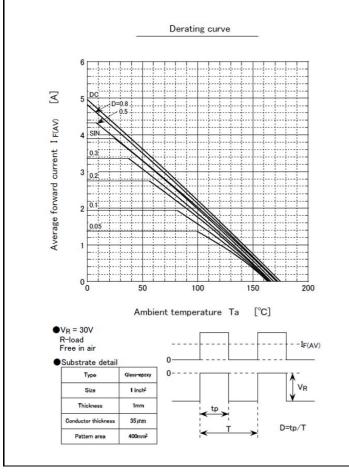


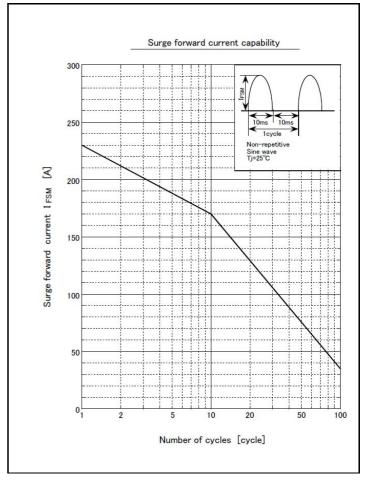


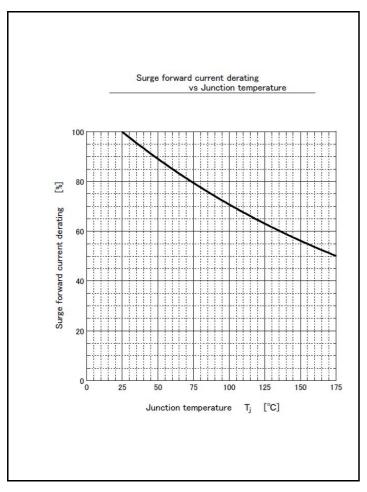


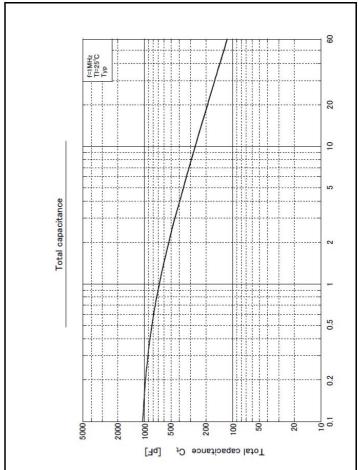


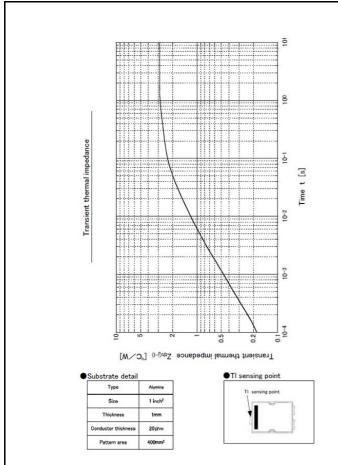


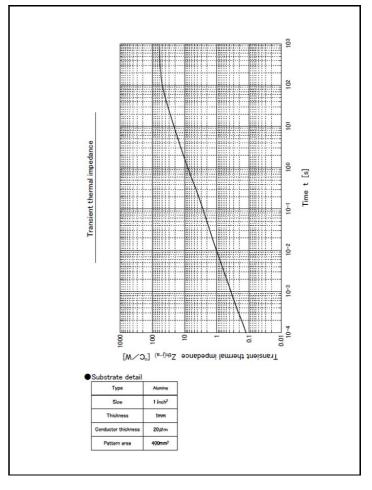


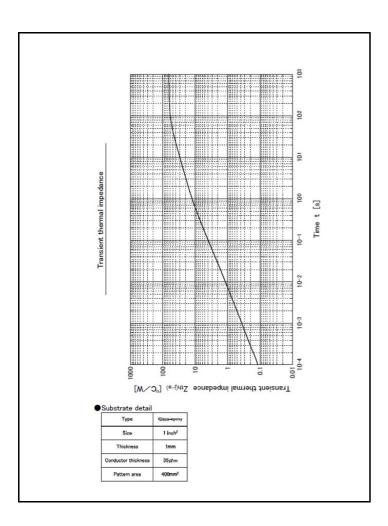






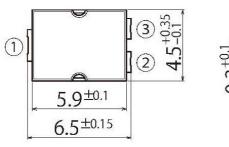


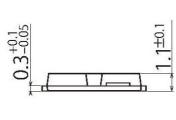


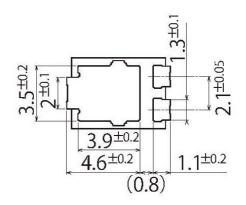


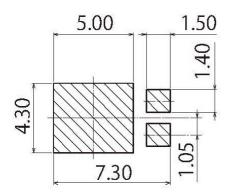
G4

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









Referential Soldering Pad

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