

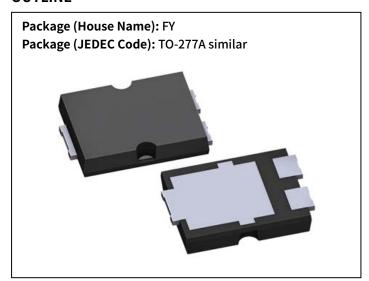
D15FY6ST

Schottky Barrier Diodes 60V, 15A

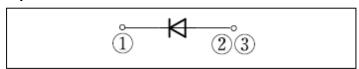
Feature

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

OUTLINE



Equivalent circuit



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

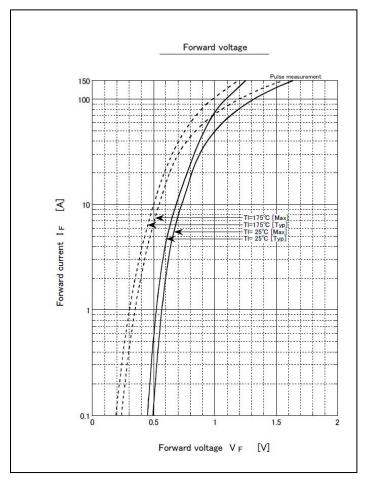
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 175	°C
Junction temperature	Tj		-55 to 175	°C
Repetitive peak reverse voltage	V _{RRM}		60	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink ,Tl=143°C ※	15	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C %	4.3	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C %	4	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	250	А

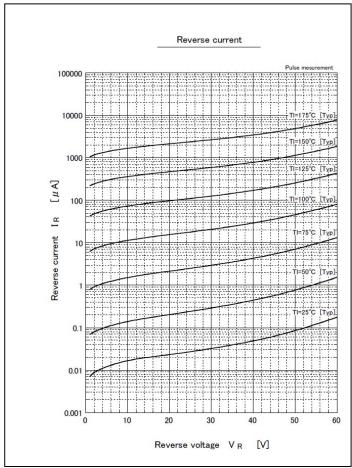
[※] ∶See the original Specifications

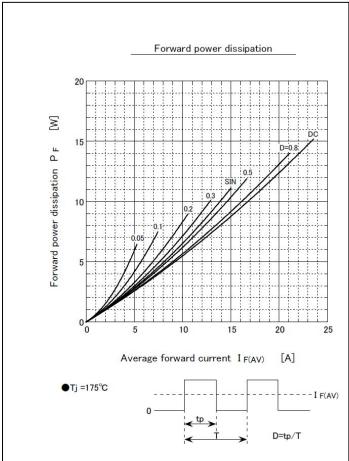
Electrical Characteristics (unless otherwise specified: Tl=25°C)

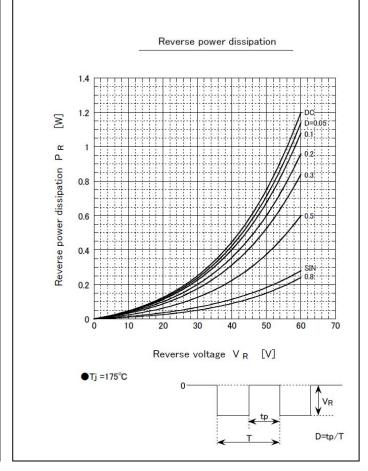
Item	Symbol	Conditions	Ratings			l lmi4
			MIN	TYP	MAX	Unit
Forward voltage	V_{F}	IF=15A, Pulse measurement			0.78	V
Reverse current	I _R	VR=60V, Pulse measurement			0.04	mA
Total capacitance	Ct	f=1MHz, VR=10V		345		pF
Thermal resistance	Rth(j-l)	Junction to lead, With heatsink **			2.8	°C/W
Thermal 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

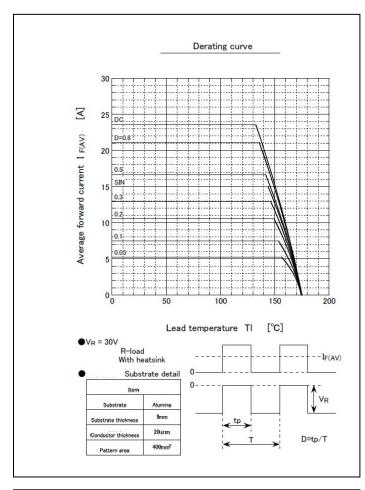
CHARACTERISTIC DIAGRAMS

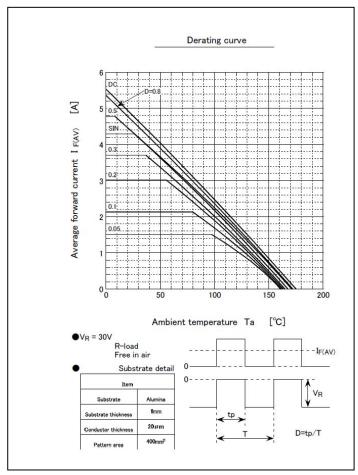


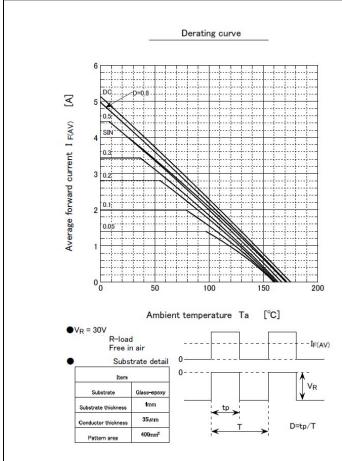


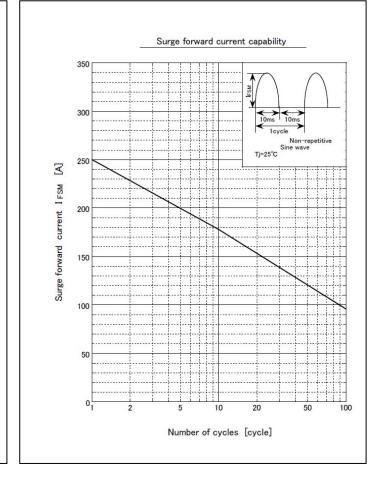


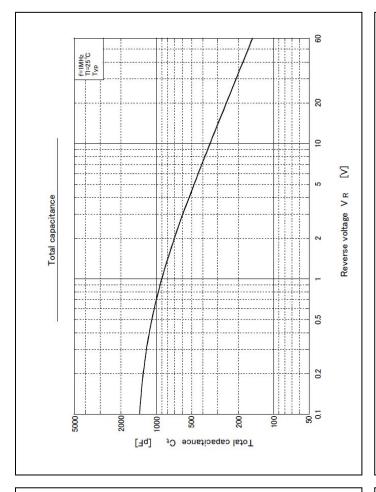


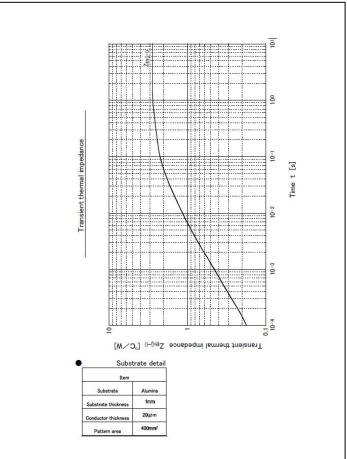


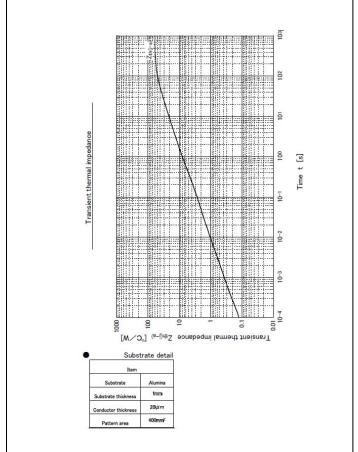


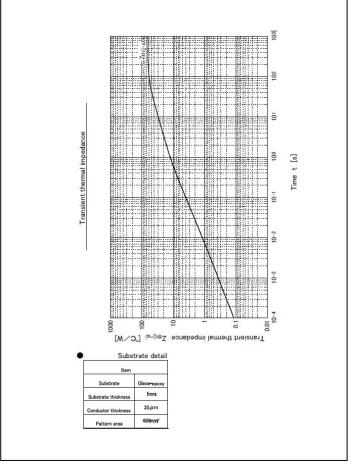






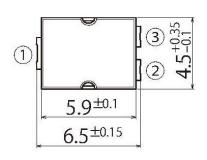


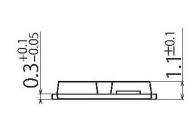


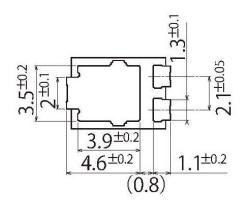


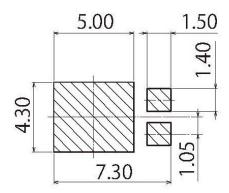
G4

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









Referential Soldering Pad

Notes

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[Specific applications]

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