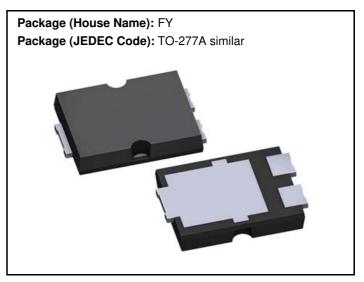
D15FY15ST Schottky Barrier Diodes 150V, 15A

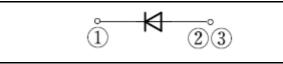
Feature

- · Permit high current with a small package
- High Voltage
- Tj=175°C
- Ultra low $I_{\rm R}$
- · Based on AEC-Q101
- Halogen free
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

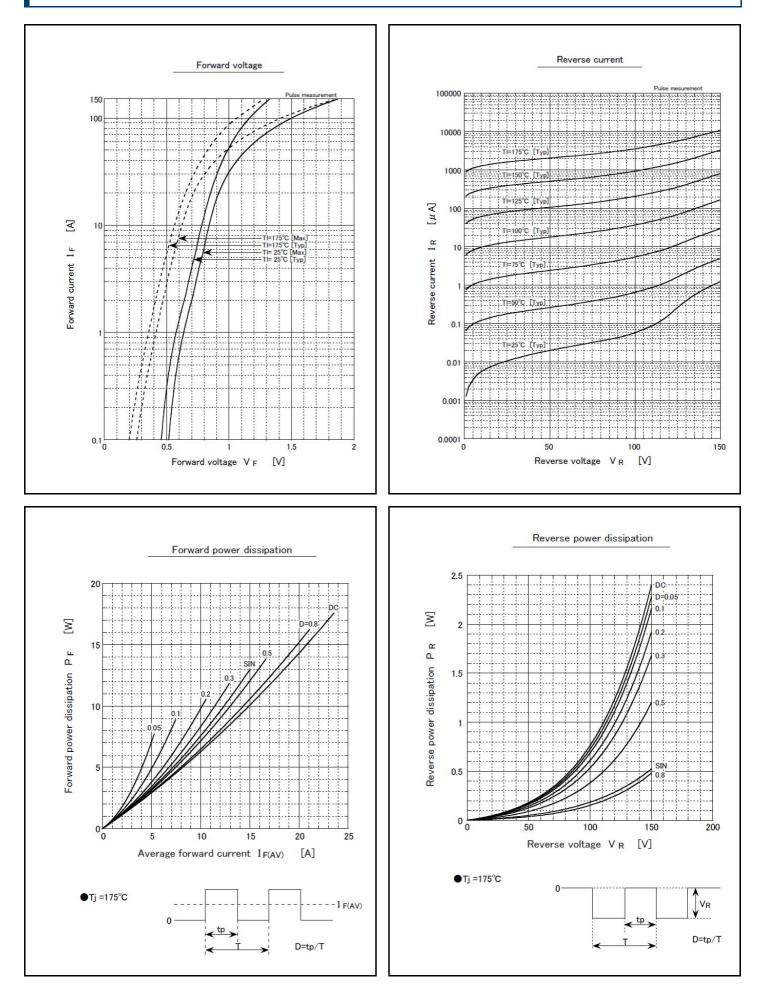
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 175	°C
Junction temperature	Tj		-55 to 175	°C
Repetitive peak reverse voltage	V _{RRM}		150	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink ,TI=138°C *	15	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	3.8	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	3.5	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	230	A

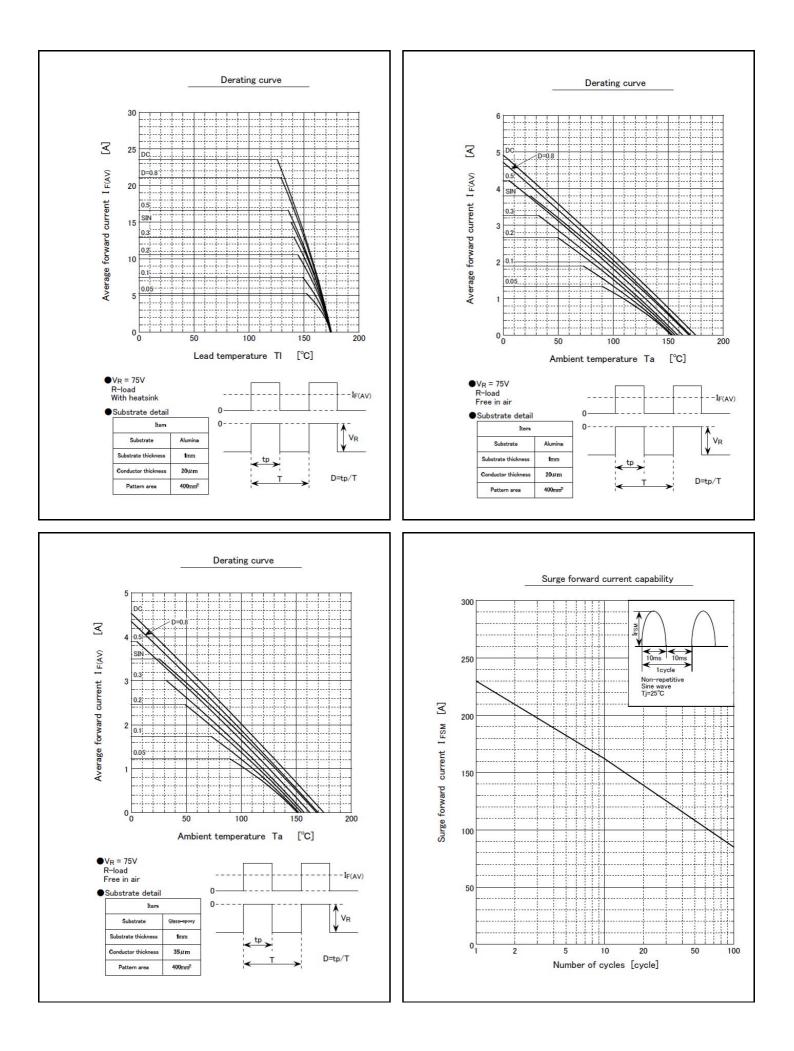
* : See the original Specifications

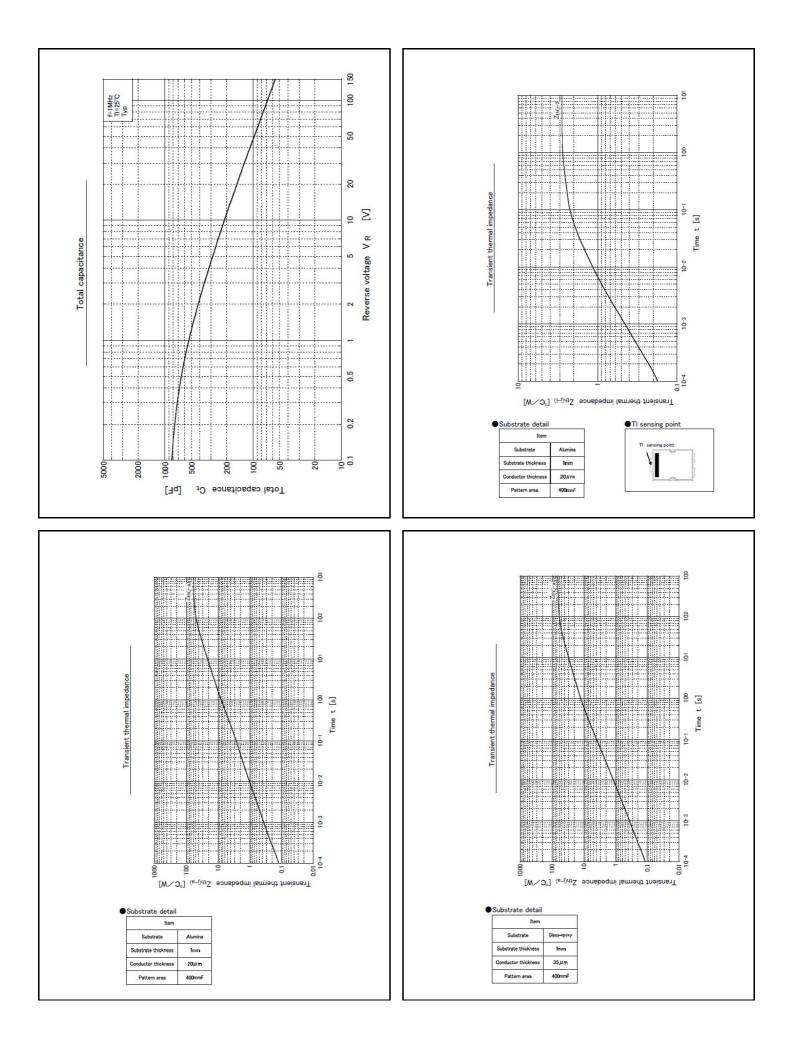
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=15A, Pulse measurement			0.88	V
Reverse current	I _R	VR=150V, Pulse measurement			0.04	mA
Total capacitance	Ct	f=1MHz, VR=10V	1	209		pF
Thermal resistance	Rth(j-l)	Junction to lead, With heatsink *			2.8	°C/W
Thermal resistance	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

* : See the original Specifications

CHARACTERISTIC DIAGRAMS



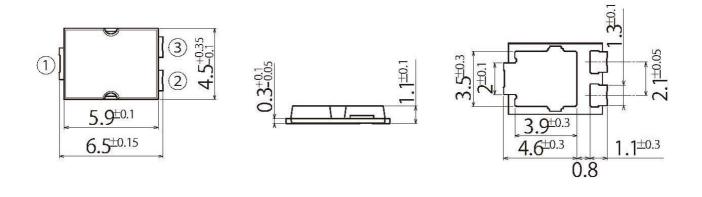


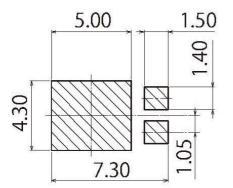


unit:mm

scale: 4/1

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





Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

Notes

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[Special applications]

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[Specific applications]

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