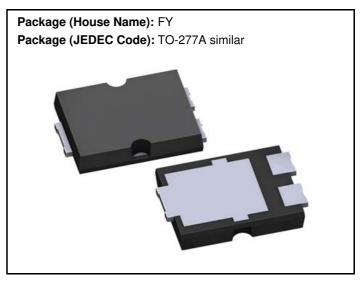
# D15FY4R5ST Schottky Barrier Diodes 45V, 15A

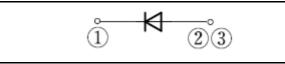
## Feature

- · Permit high current with a small package
- Tj=175°C
- Ultra low I<sub>R</sub>
- · 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 <sub>RRM</sub>		45	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink ,TI=145°C *	15	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	4.6	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	4.3	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	270	A

\* : See the original Specifications

Electrical Characteristics (unless otherwise specified : TI=25°C)								
Item	Symbol	Conditions	Ratings					
			MIN	ТҮР	MAX			
Forward voltage	V <sub>F</sub>	IF=15A, Pulse measurement			0.74			
Reverse current	I <sub>R</sub>	VR=45V, Pulse measurement			0.04			
Total capacitance	Ct	f=1MHz, VR=10V		398				
Thermal resistance	Rth(j-l)	Junction to lead, With heatsink *			2.8			

Junction to ambient, On alumina substrate \*

Junction to ambient, On glass-epoxy substrate \*

Rth(j-a)

Rth(j-a)

\* : See the original Specifications

Thermal resistance

Thermal resistance

Unit

۷

mΑ рF

°C/W

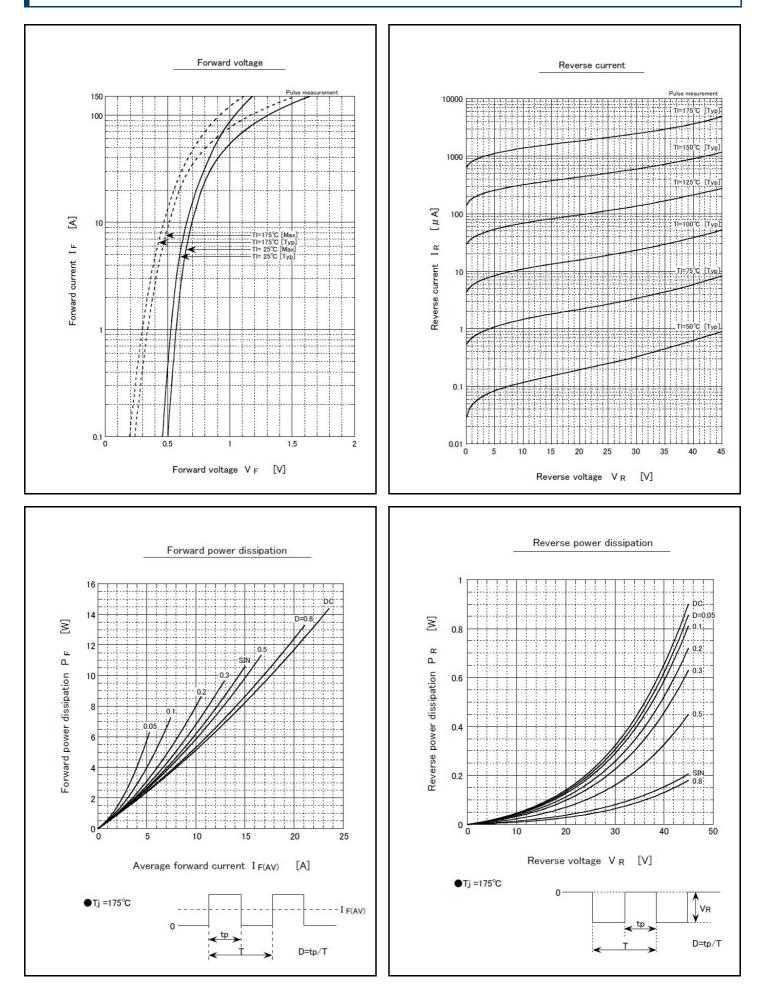
°C/W

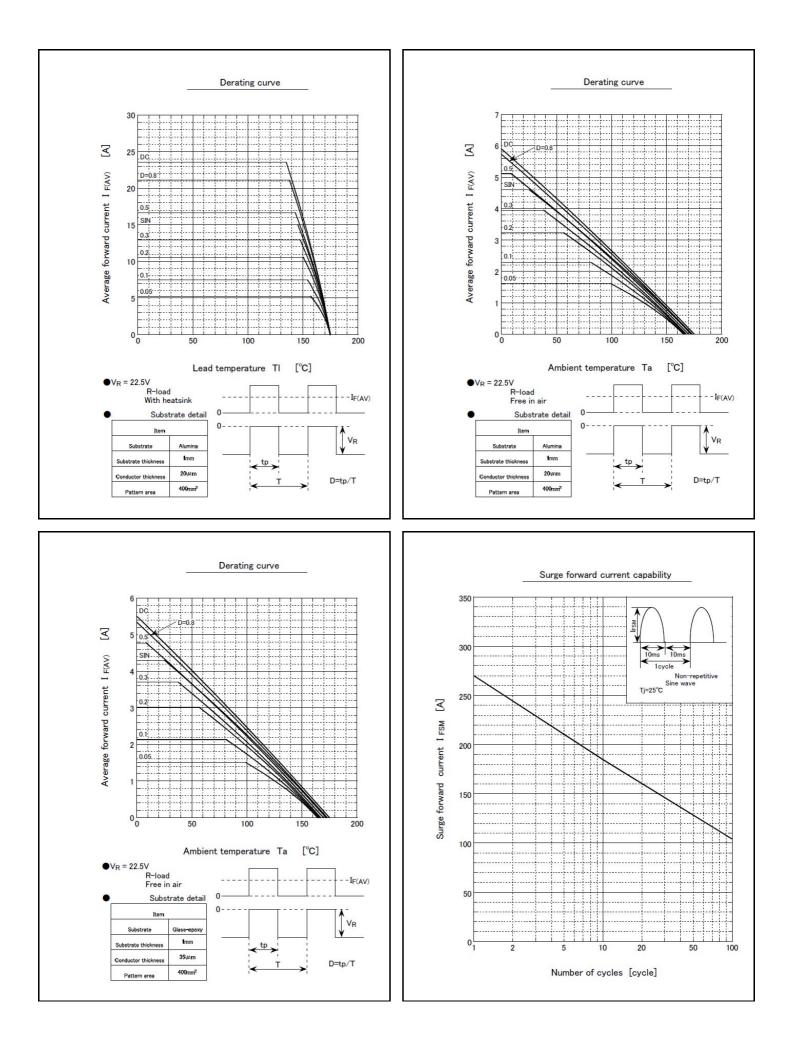
°C/W

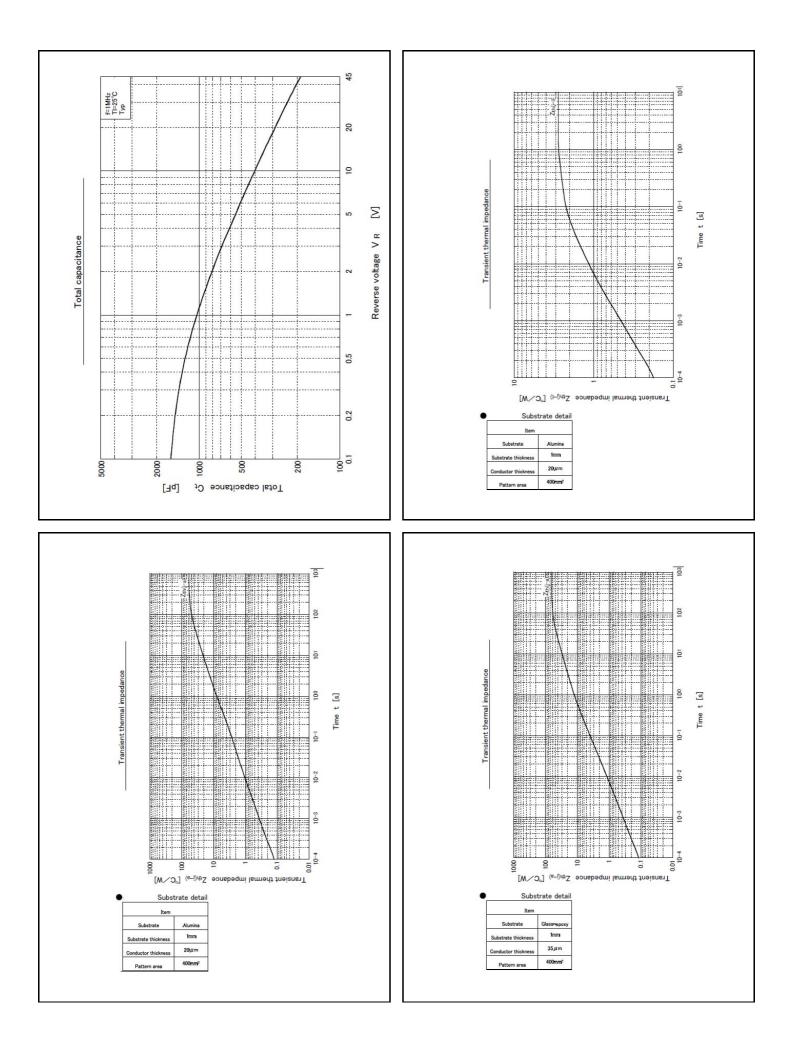
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## **CHARACTERISTIC DIAGRAMS**

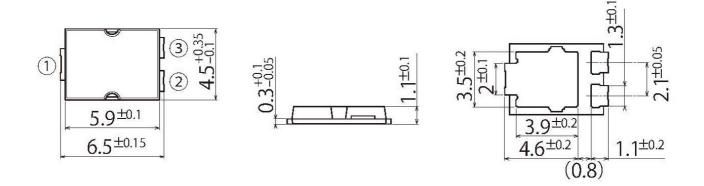


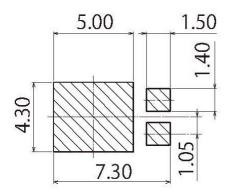




unit:mm

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





**Referential Soldering Pad** 

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