D15FR60LA

Fast Recovery Diodes 600V, 15A

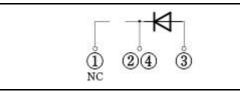
Feature

- SMD
- High Voltage
- High Recovery Speed
- Low Noise
- · Based on AEC-Q101
- $\mbox{-}$ Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

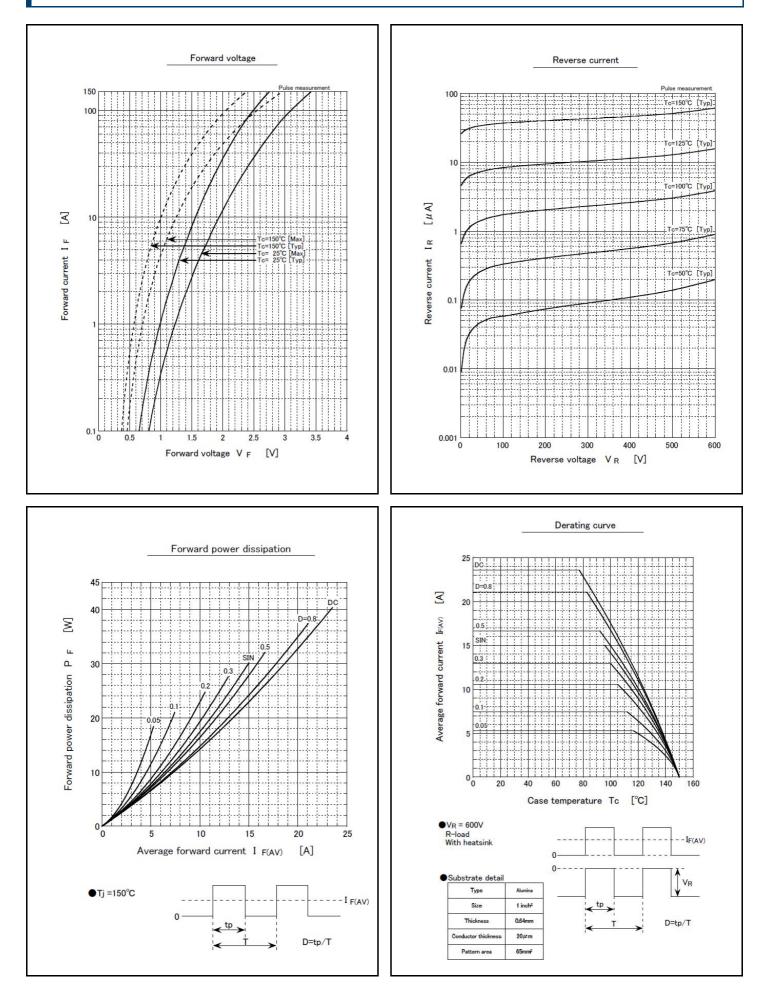
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=95°C *	15	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	220	A
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	450	А

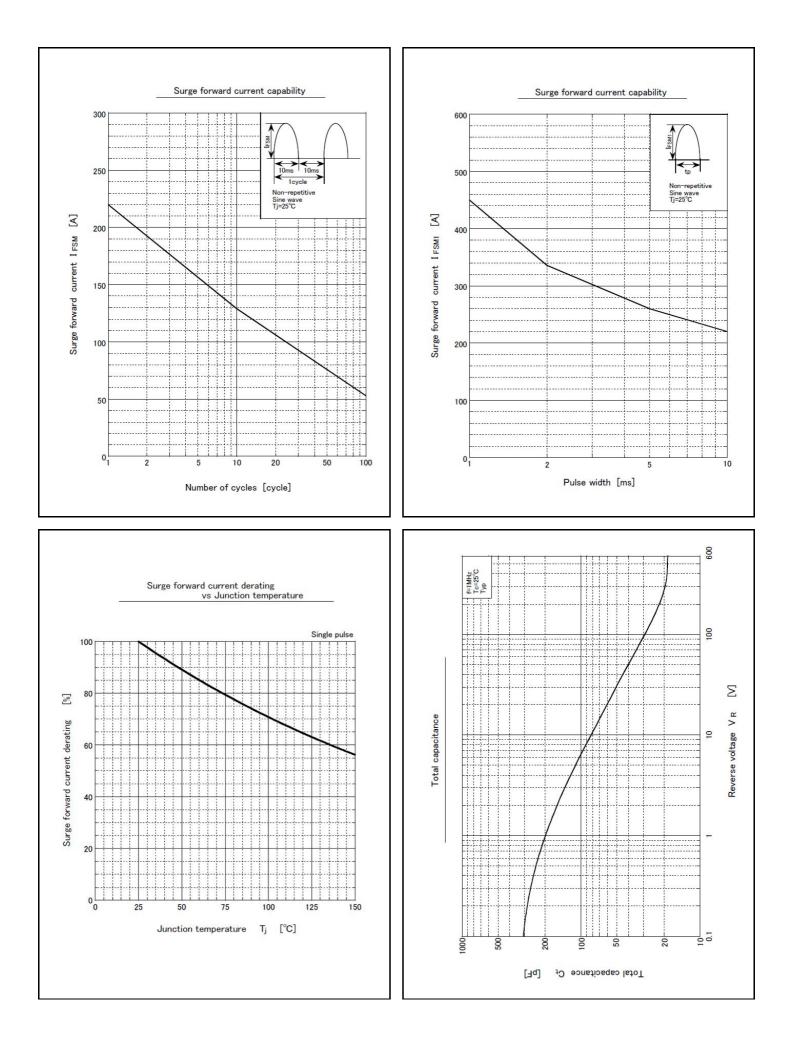
* : See the original Specifications

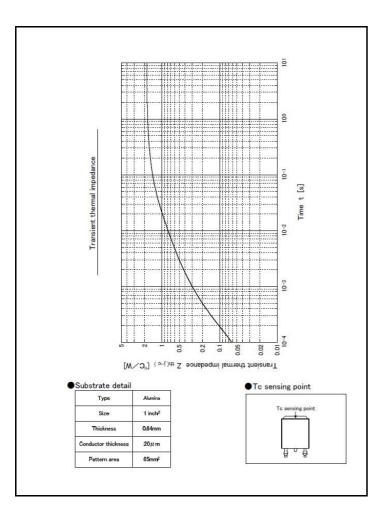
Item	Symbol	Conditions		Ratings		
	Symbol		MIN	ТҮР	MAX	Unit
Forward voltage	V _F	IF=15A, Pulse measurement			2.1	V
Reverse current	I _R	VR=600V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			30	ns
Total capacitance	Ct	f=1MHz, VR=10V		81		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink *			1.8	°C/W

*:See the original Specifications

CHARACTERISTIC DIAGRAMS



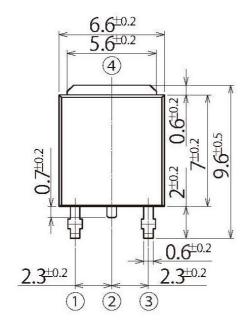


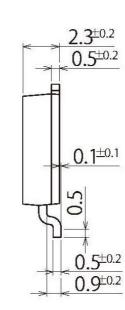


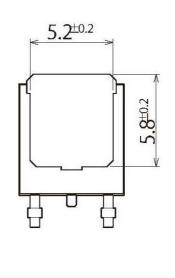
unit:mm

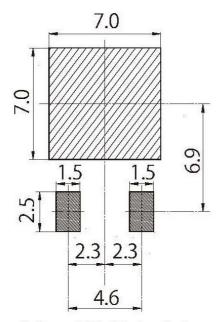
scale: 4/1

G5	JEDEC Code	TO-252AA similar
	JEITA Code	_
	House Name	FR











• 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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