

D10FR60LA

Fast Recovery Diodes 600V, 10A

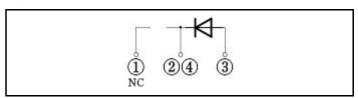
Feature

- SMD
- High Voltage
- · High Recovery Speed
- Low Noise
- · Based on AEC-Q101
- 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	٧
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=110°C *	10	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	140	Α
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	288	А

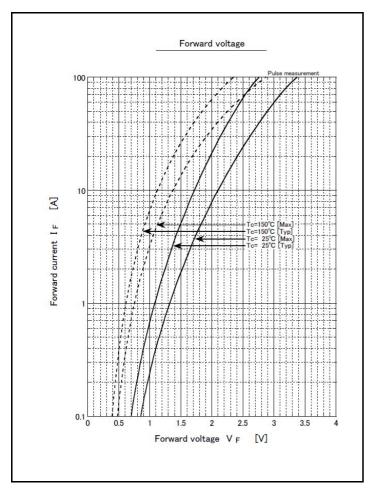
^{* :} See the original Specifications

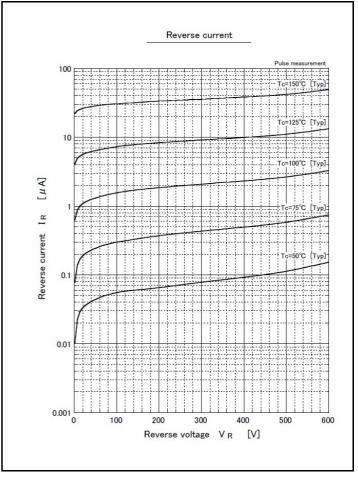
Electrical Characteristics (unless otherwise specified : Tc=25°C)

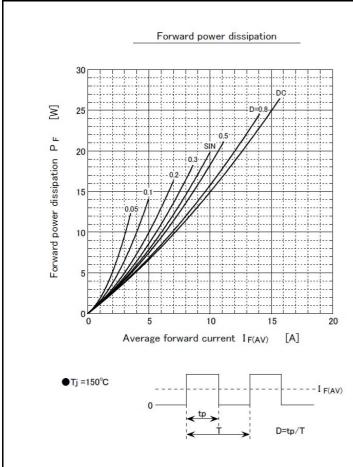
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O mit
Forward voltage	V _F	IF=10A, Pulse measurement			2.1	V
Reverse current	I _R	VR=600V, Pulse measurement			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			28	ns
Total capacitance	Ct	f=1MHz, VR=10V		54		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink *			2	°C/W

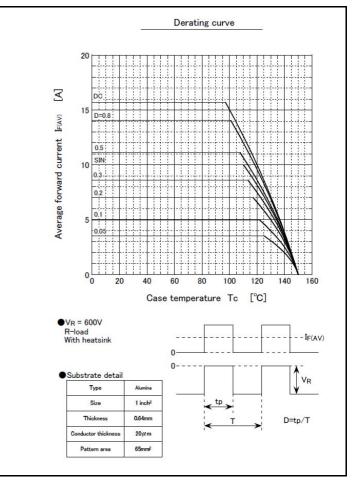
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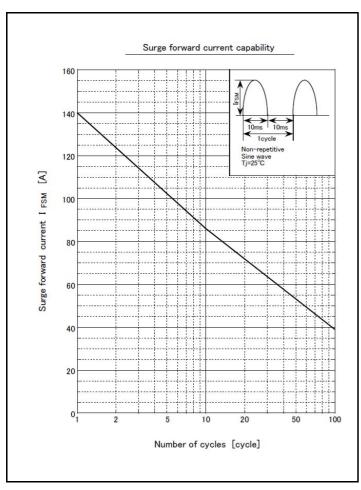
CHARACTERISTIC DIAGRAMS

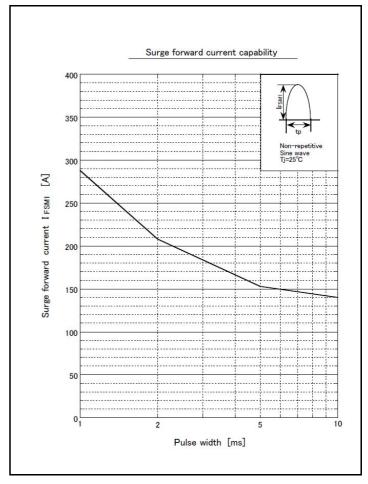


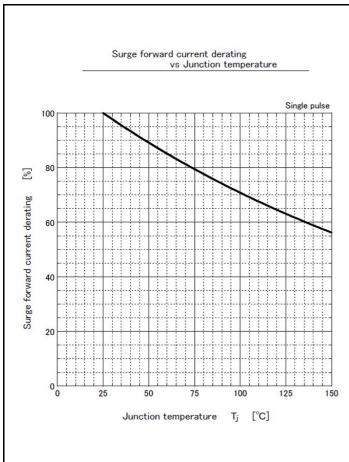


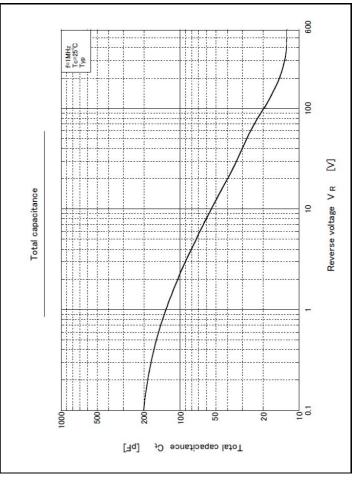


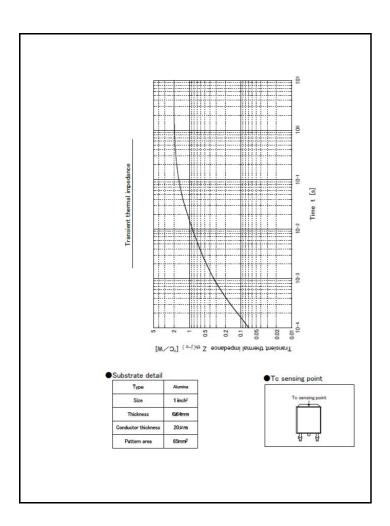








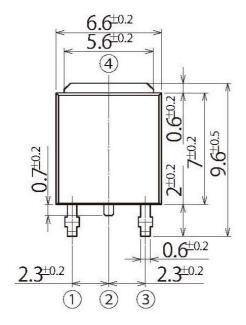


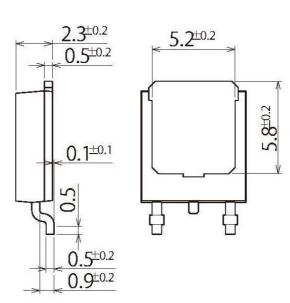


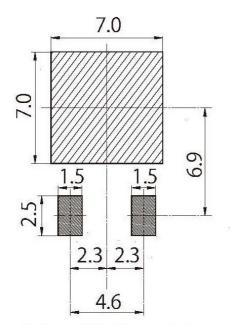
scale: 4/1

G5

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







Referential Soldering Pad

 \bullet Optimize soldering pad to the board design and soldering condition.

Notes

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[Special applications]

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