

D2FK60

Fast Recovery Diodes 600V, 1.5A

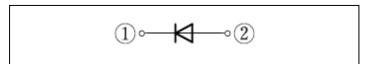
Feature

- Small SMD
- High Voltage
- Low Noise
- · Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

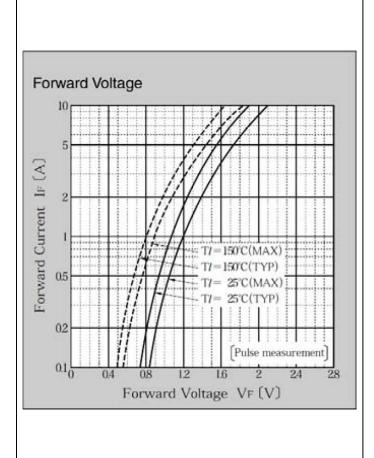
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tl=101°C	1.5	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=30°C	1.1	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=28°C	0.9	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	40	А

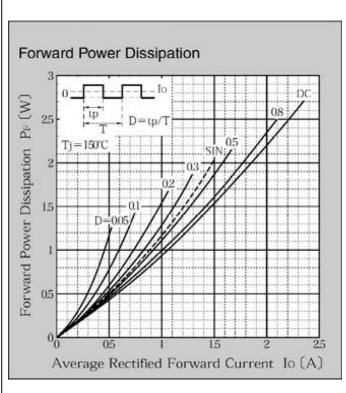
*** : See the original Specifications**

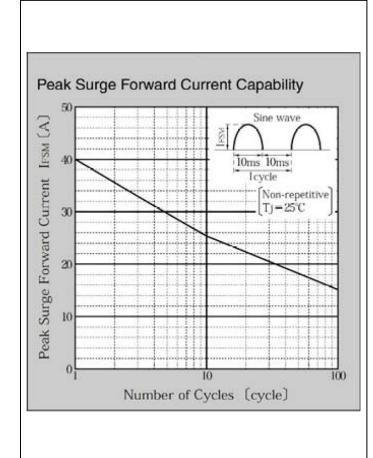
Electrical Characteristics (unless otherwise specified : Tl=25°C)

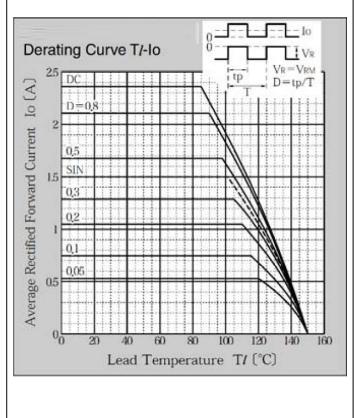
Item	Symbol	Conditions	Ratings			l lmit
			MIN	TYP	MAX	Unit
Forward voltage	V _F	IF=1.5A, Pulse measurement			1.3	V
Reverse current	I _R	VR=600V, Pulse measurement			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			75	ns
Total capacitance	Ct	f=1MHz, VR=10V		16		pF
Thermal resistance	Rth(j-l)	Junction to lead			24	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate			90	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate			120	°C/W

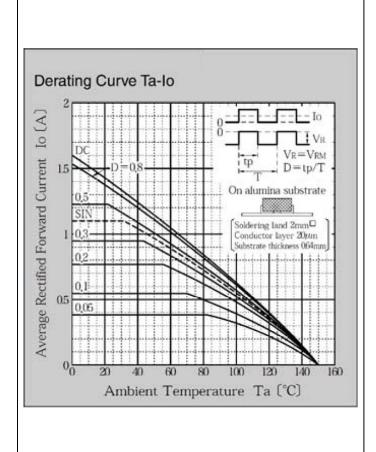
CHARACTERISTIC DIAGRAMS

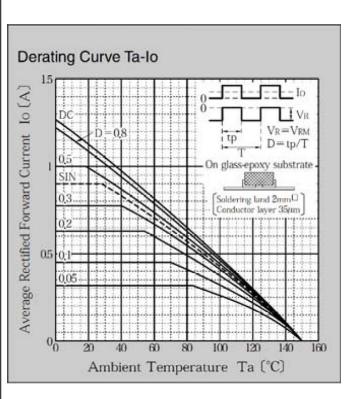


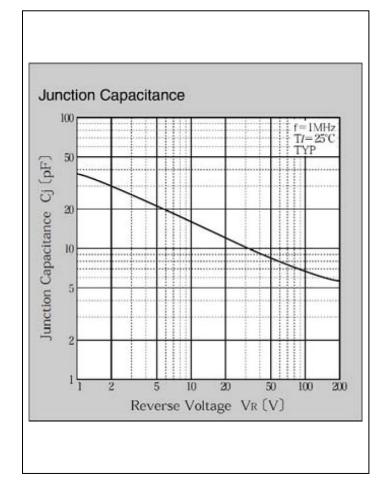






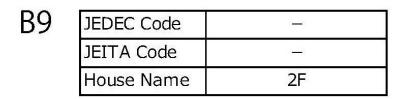


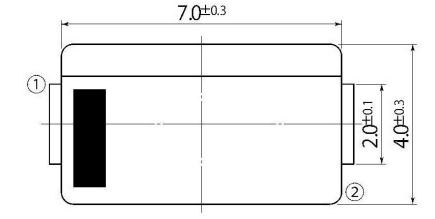


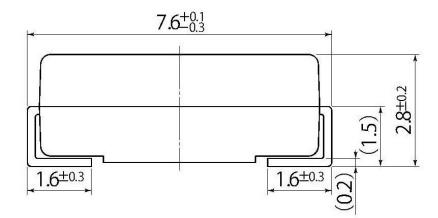


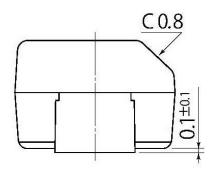
unit:mm

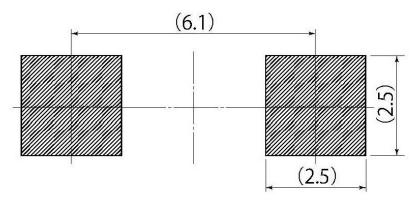
scale: 10/1











Referential Soldering Pad

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

Notes

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