

## **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 : TI=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 <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=101°C	1.5	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=30°C	1.1	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=28°C	0.9	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	40	Α

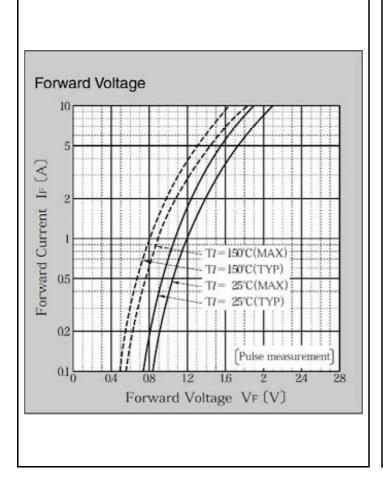
<sup>\* :</sup> See the original Specifications

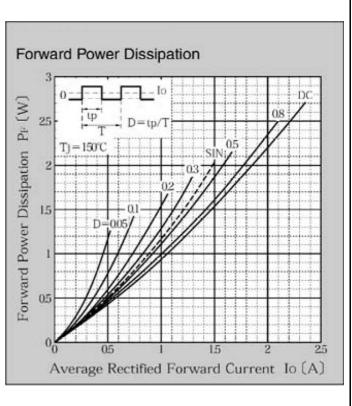
## **Electrical Characteristics** (unless otherwise specified : TI=25°C)

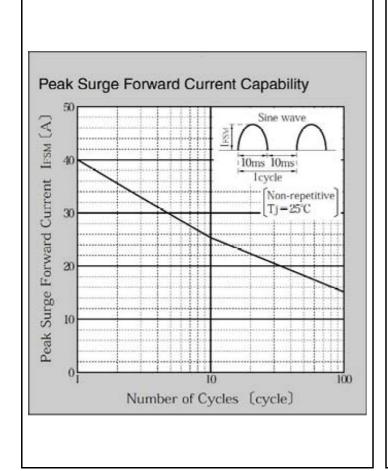
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O mit
Forward voltage	V <sub>F</sub>	IF=1.5A, Pulse measurement			1.3	V
Reverse current	I <sub>R</sub>	VR=600V, Pulse measurement			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			75	ns
Total capacitance	Ct	f=1MHz, VR=10V		16		pF
Thermal 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

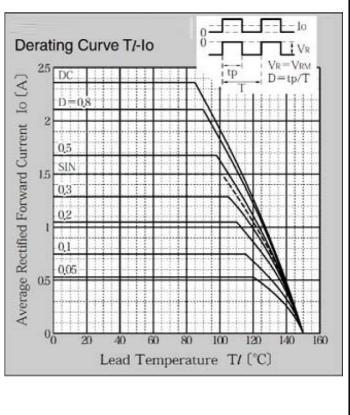
<sup>\*</sup> :See the original Specifications

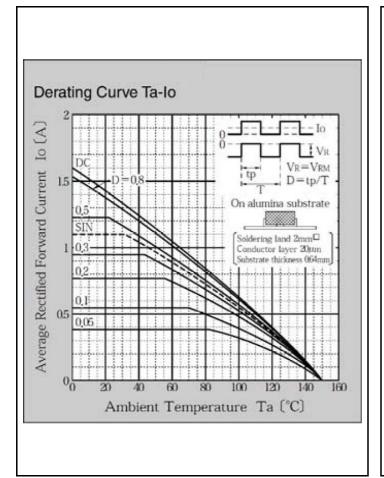
## **CHARACTERISTIC DIAGRAMS**

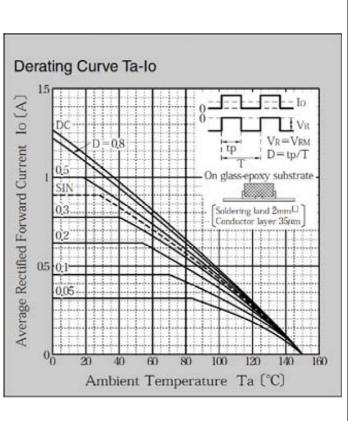


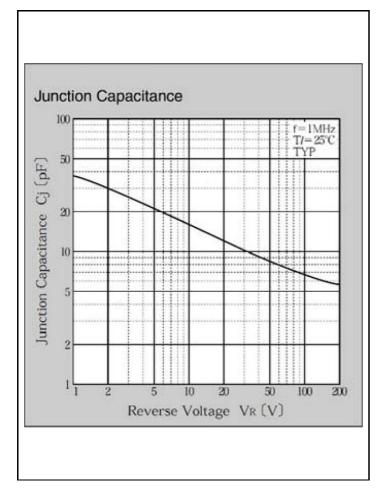






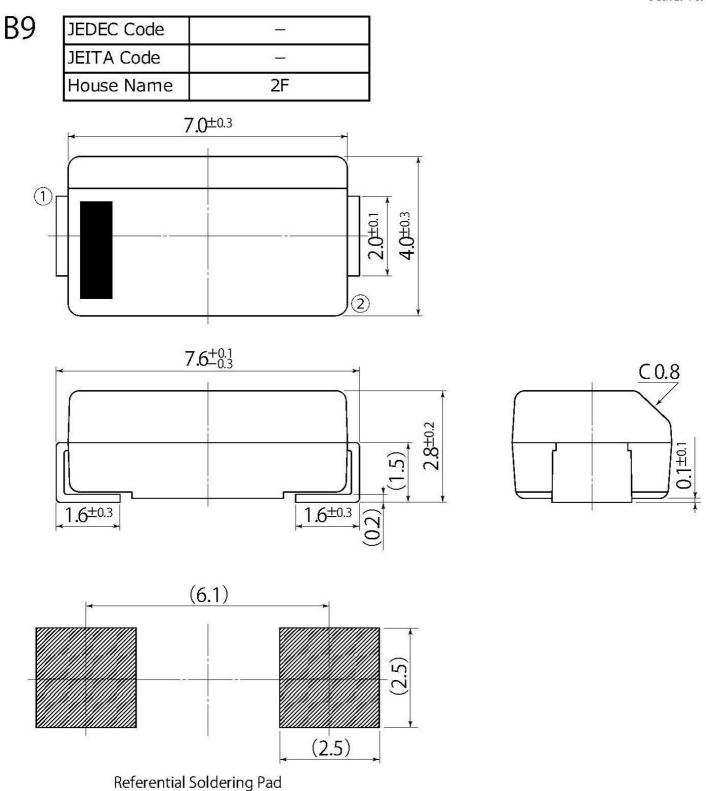






unit:mm

scale: 10/1



 $<sup>\</sup>bullet$  Optimize soldering pad to the board design and soldering condition.

#### **Notes**

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