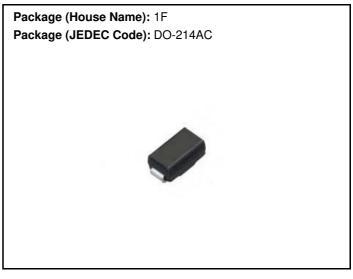
# **D1FE60**

General Rectifying Diodes 600V, 1.0A

# Feature

- Small SMD
- High ESD Capability
- · Based on AEC-Q101
- 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		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=126°C	1	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	1	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.8	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A
Surge forward current	I <sub>FSM1</sub>	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C	70	A

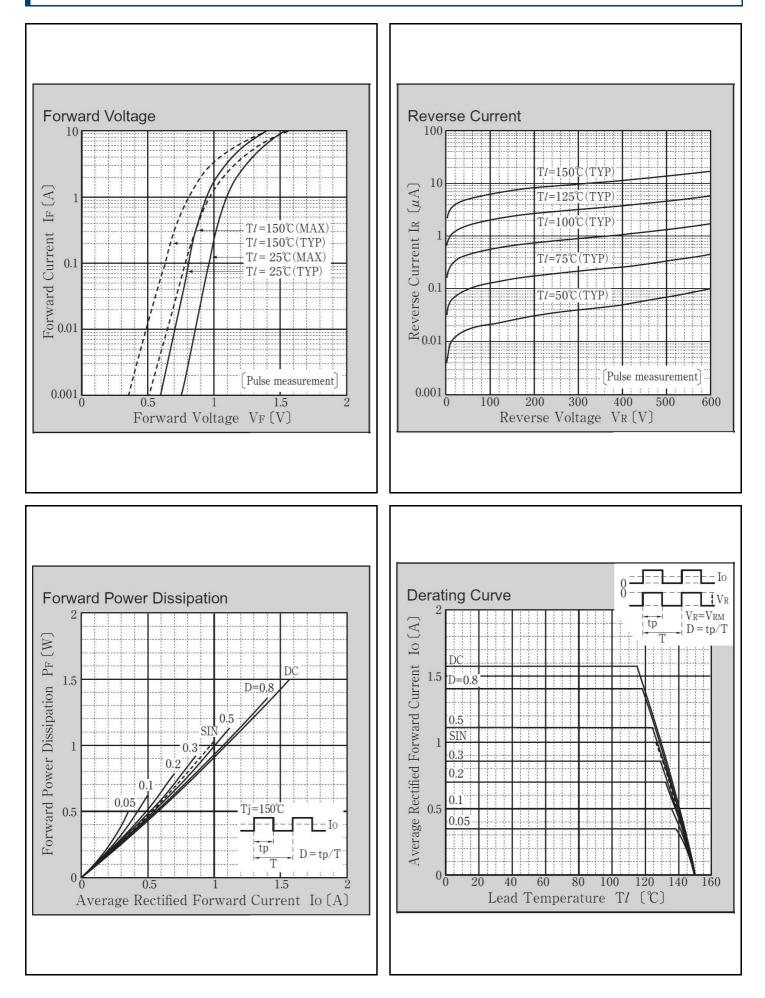
\* : See the original Specifications

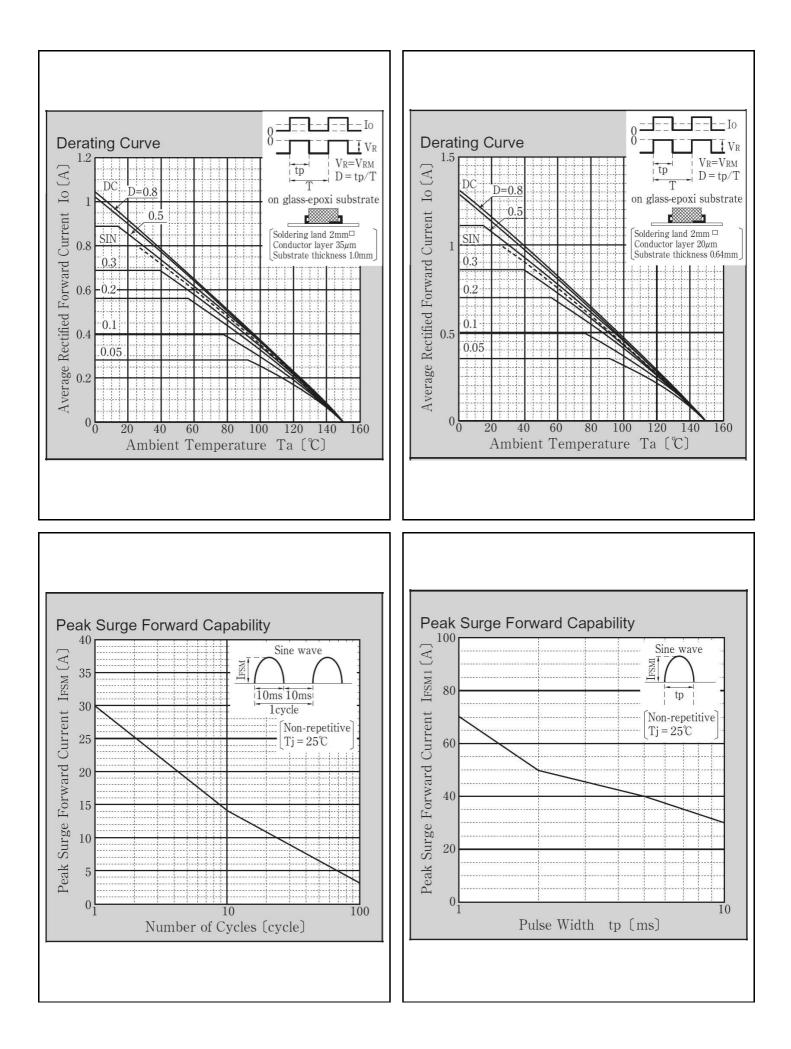
<b>Electrical Characteristics</b>	(unless otherwise specified : TI=25°C)
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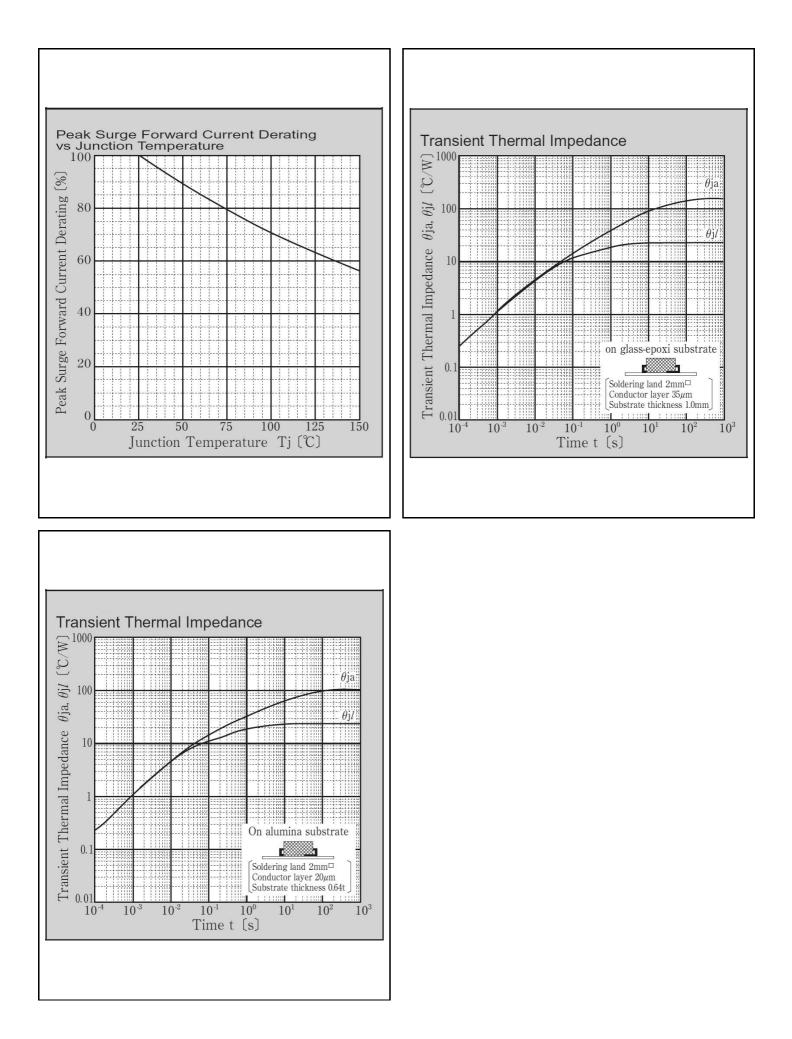
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V <sub>F</sub>	IF=1A, Pulse measurement			1.1	V
Reverse current	I <sub>R</sub>	VR=600V, Pulse measurement			10	μA
Electro static dischange Capability	V <sub>ESD</sub>	C=150pF, R=150Ω, Polarity±, Aerial discharge		25		kV
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *			108	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			157	°C/W

\*:See the original Specifications

# **CHARACTERISTIC DIAGRAMS**



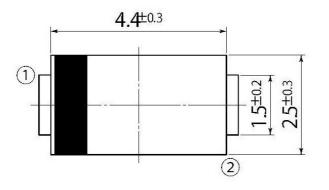


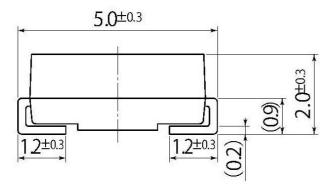


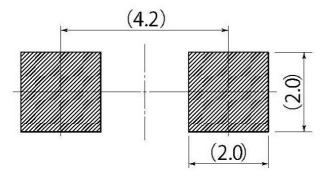
### unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC		
	JEITA Code	-		
	House Name	1F		

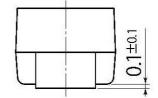






# Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



#### Notes

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#### [Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

#### [Specific applications]

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