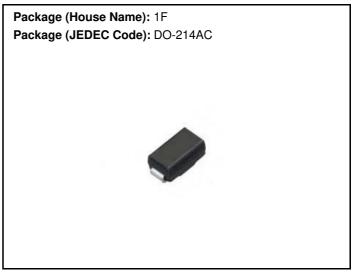
D1F60

General Rectifying Diodes 600V, 1.0A

Feature

- Small SMD
- · 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		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, TI=123°C	1	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	1	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.75	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	25	А
Current squared time	l ² t	1ms≦tp<10ms, Tj=25°C	2.5	A ² s

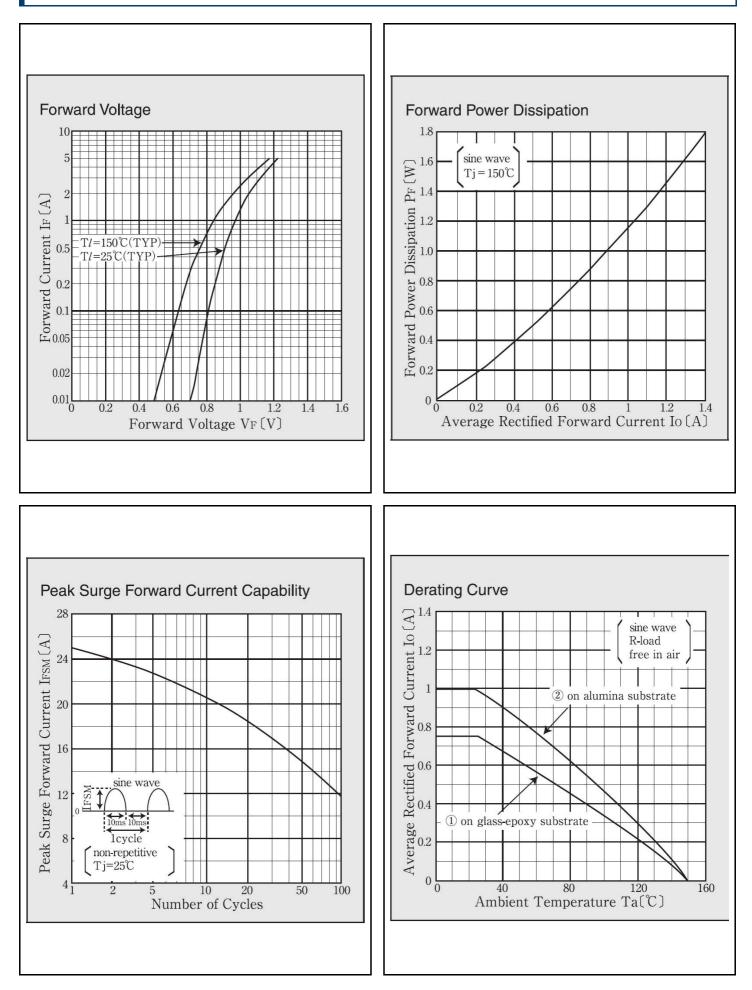
* : See the original Specifications

Electrical Characteristics	(unless otherwise specified : TI=25°C)
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ltem	Symbol	Conditions	Ratings			Unit
nem	Symbol	Conditions		ТҮР	MAX	Onit
Forward voltage	V _F	IF=1A, Pulse measurement			1.1	V
Reverse current	I _R	VR=600V, Pulse measurement			10	μA
Total capacitance	Ct	f=1MHz, VR=10V		4.7		pF
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

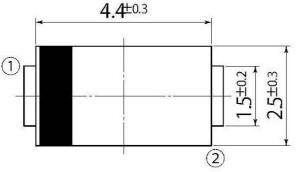


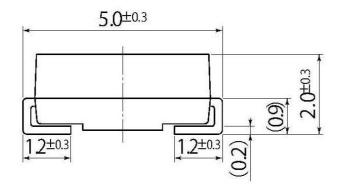
	1	2
soldering land	$2 \mathrm{mm}^{\square}$	$2 \mathrm{mm}^{\square}$
conductor layer	35 <i>µ</i> m	$20\mu{ m m}$
substrate thickness		0.64 t

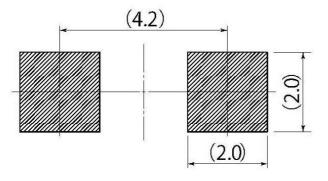
unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC	
	JEITA Code	9 -9	
	House Name	1F, CF	

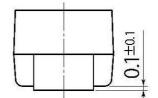






Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



4.4^{±0.3} (1

Notes

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[Specific applications]

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