

# DF10L60

Fast Recovery Diodes  
600V, 10A

**Feature**

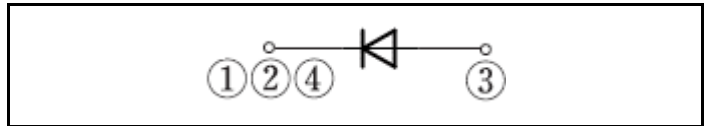
- SMD
- High Voltage
- Low Noise
- Pb free terminal
- RoHS:Yes

**OUTLINE**

Package (House Name): STO-220  
Package (JEITA Code): SC-83 similar



**Equivalent circuit**



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	VRRM		600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Tc=105°C	10	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	100	A

\* : See the original Specifications

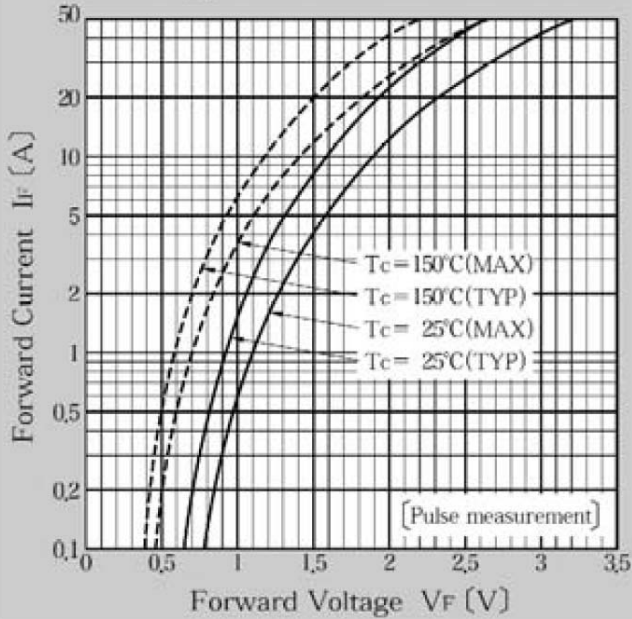
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	VF	IF=10A, Pulse measurement			1.9	V
Reverse current	IR	VR=600V, Pulse measurement			10	µA
Reverse recovery time	trr	IF=0.5A, IR=1.0A			50	ns
Thermal resistance	Rth(j-c)	Junction to case			2	°C/W

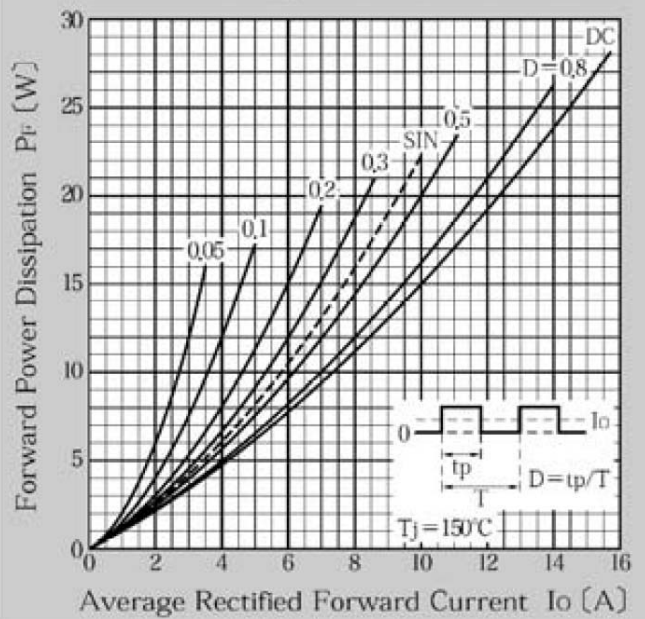
\* : See the original Specifications

# CHARACTERISTIC DIAGRAMS

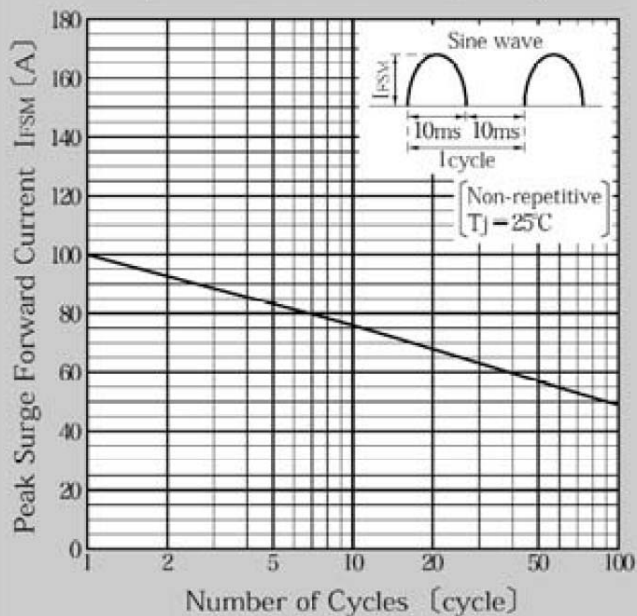
### Forward Voltage



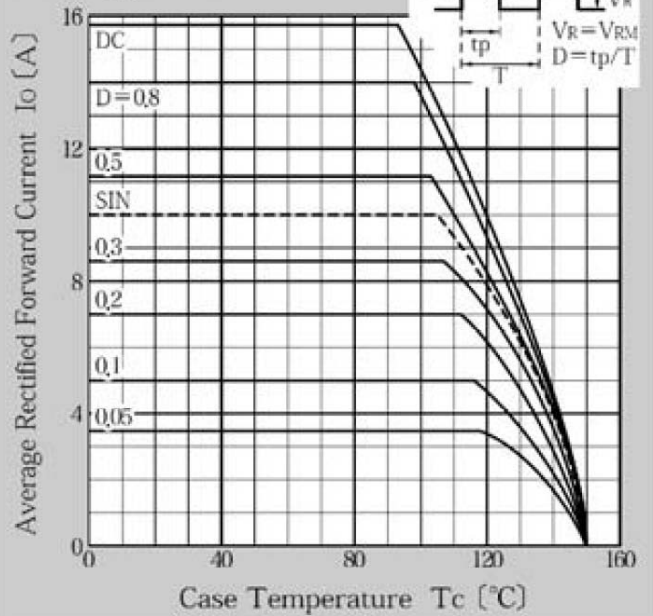
### Forward Power Dissipation



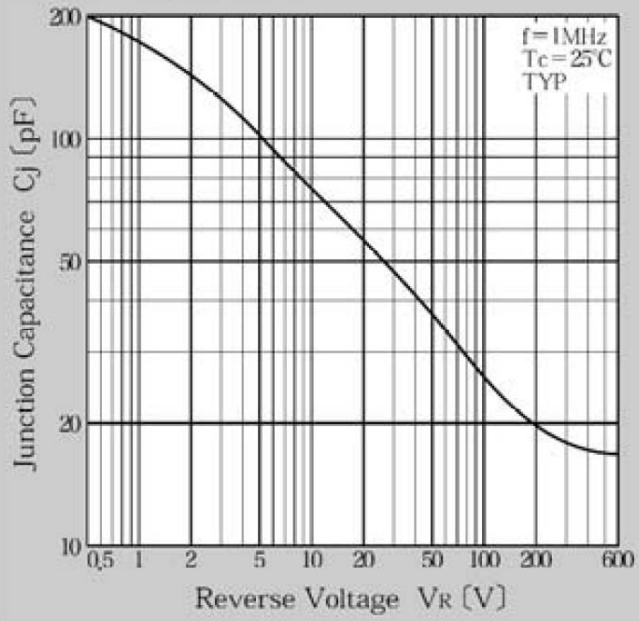
### Peak Surge Forward Current Capability



### Derating Curve $T_c$ - $I_o$

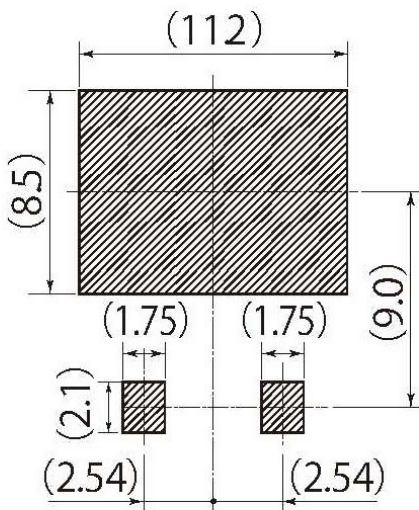
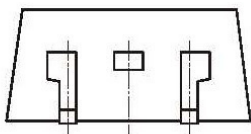
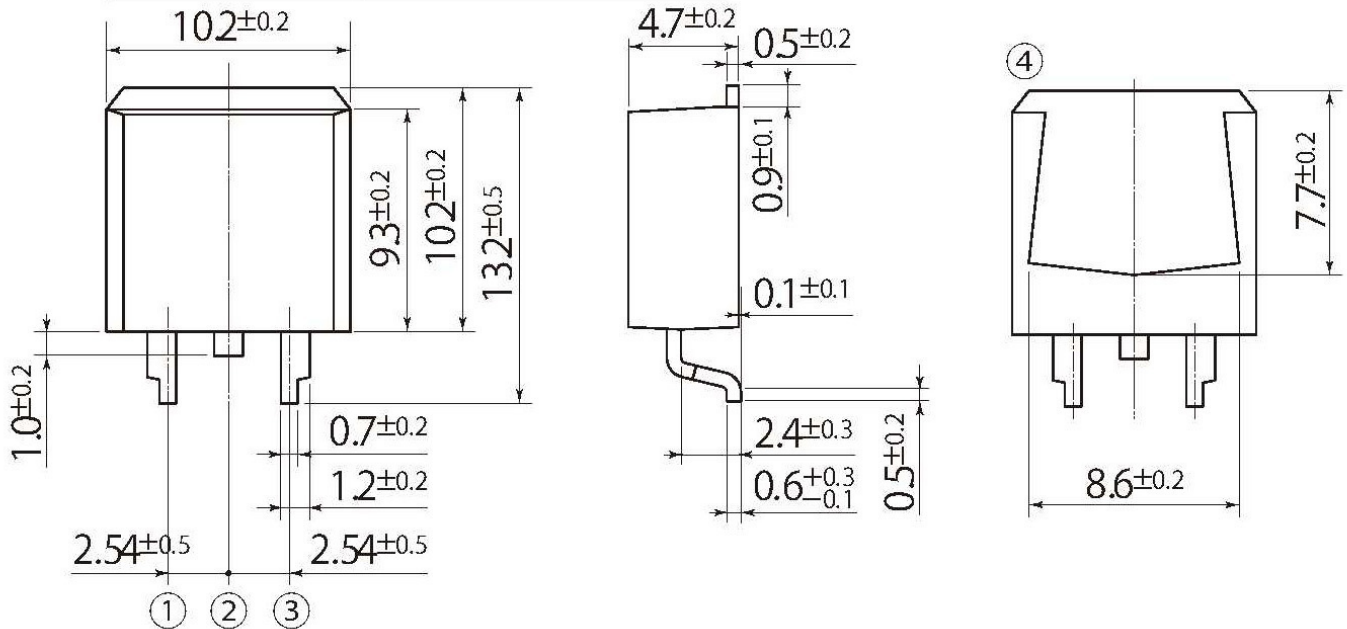


### Junction Capacitance



H1

JEDEC Code	-
JEITA Code	SC-83 similar
House Name	STO-220



Referential Soldering Pad

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

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