

# D40FDC10ST

# Schottky Barrier Diodes 100V, 40A

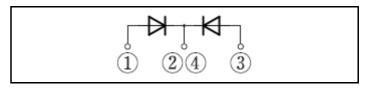
## **Feature**

- SMD
- Low I<sub>R</sub>
- · Available for automotive use
- · Pb free terminal
- RoHS:Yes

## **OUTLINE**



# **Equivalent circuit**



## Absolute Maximum Ratings (unless otherwise specified : Tc=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	$V_{RRM}$		100	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=105°C	40	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C 400		А

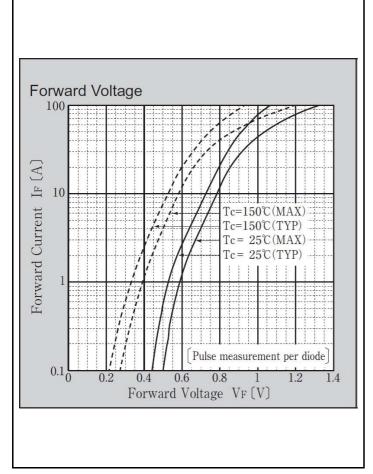
<sup>\*</sup> :See the original Specifications

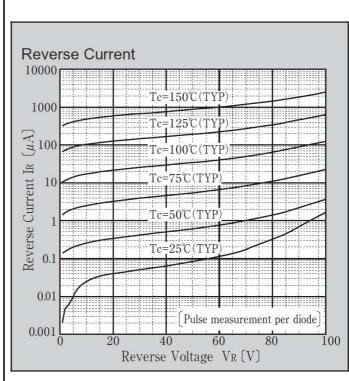
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

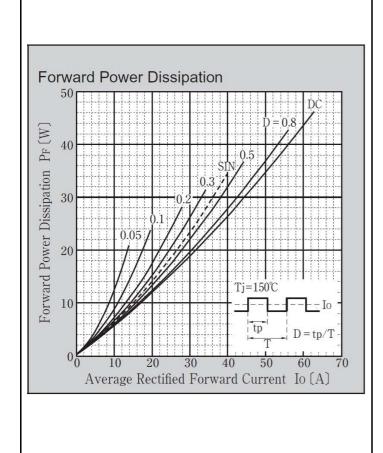
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=20A, Pulse measurement, per diode		0.8	0.86	V
Reverse current	I <sub>R</sub>	VR=100V, Pulse measurement, per diode			0.06	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		360		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.3	°C/W

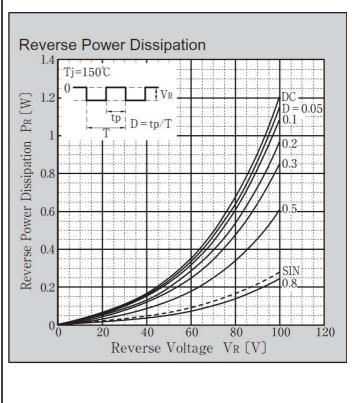
<sup>\* :</sup> See the original Specifications

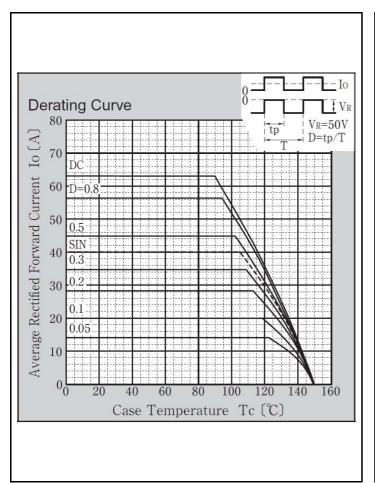
# **CHARACTERISTIC DIAGRAMS**

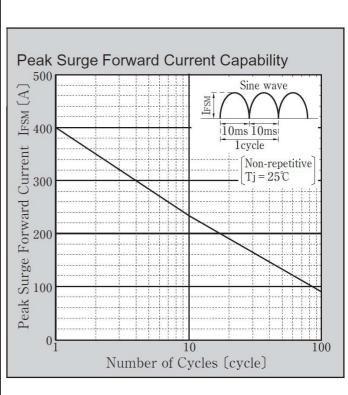


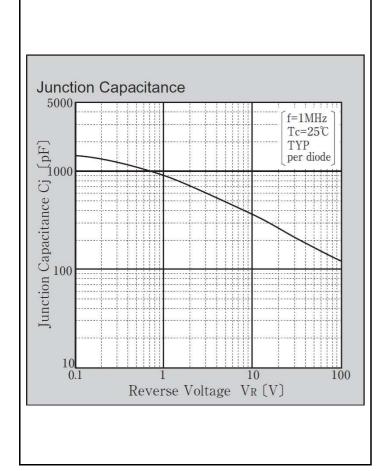


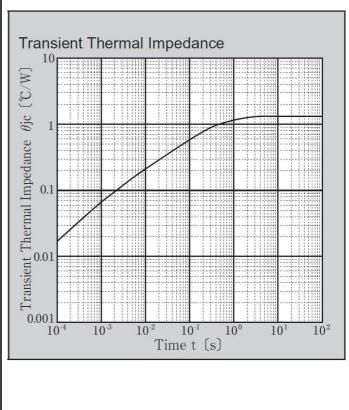








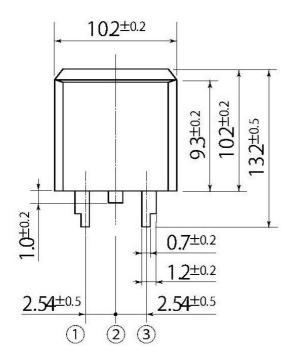


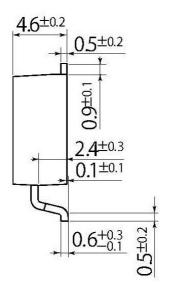


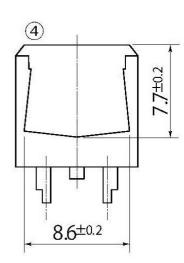
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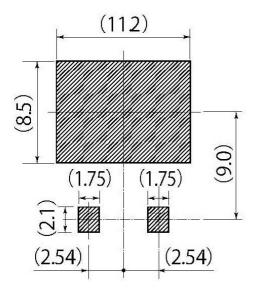
H2

JEDEC Code	_		
JEITA Code	SC-83 similar		
House Name	FD		









Referential Soldering Pad

<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

### **Notes**

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