

## **D240SC4M**

# Schottky Barrier Diodes 40V, 240A

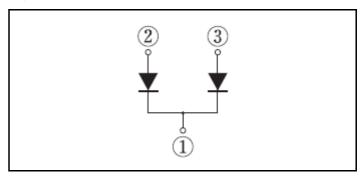
#### **Feature**

- High Io Rating Module Package
- · High Recovery Speed
- 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		-40 to 125	°C
Junction temperature	Tj		125	°C
Repetitive peak reverse voltage	$V_{RRM}$		40	V
Repetitive peak surge reverse voltage	V <sub>RRSM</sub>	Pulse width 100ns, duty=1/100	48	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Rating for each arm IF(AV)/2, Tc=77°C	240	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, per arm, Tj=125°C	1600	Α
Mounting torque	TOR		1.7	N∙m

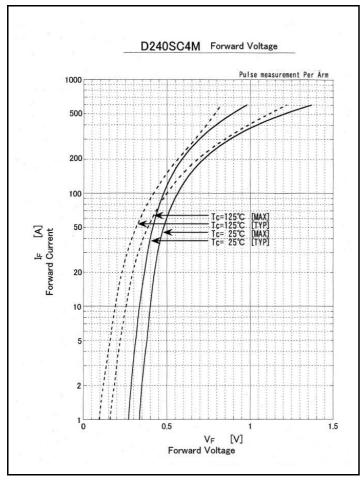
<sup>\* :</sup> See the original Specifications

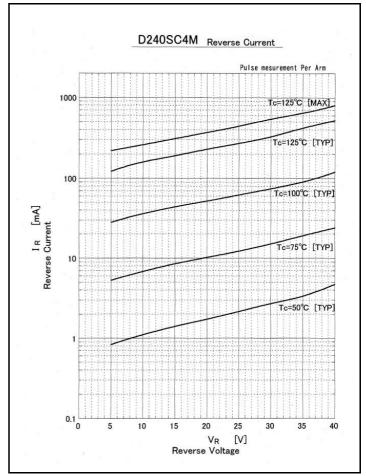
## **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

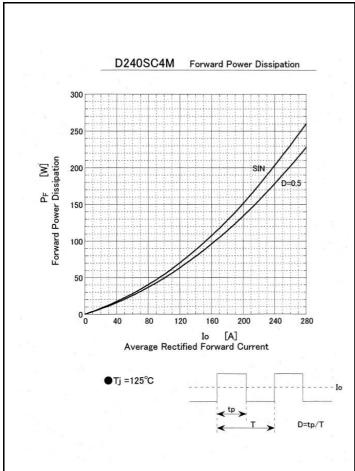
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	0
Forward voltage	V <sub>F</sub>	IF=120A, Pulse measurement, per arm			0.6	V
Reverse current	I <sub>R</sub>	VR=40V, Pulse measurement, per arm			80	mA
Total capacitance	Ct	f=1MHz, VR=10V, per arm		4200		pF
Thermal resistance	Rth(j-c)	Junction to case			0.23	°C/W

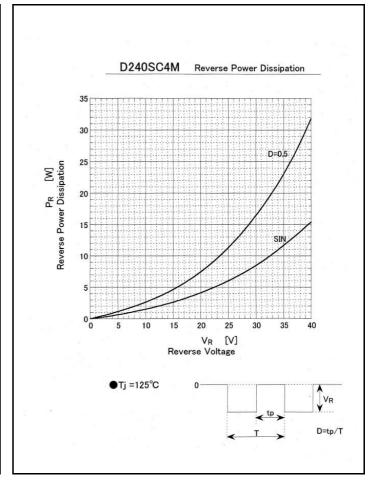
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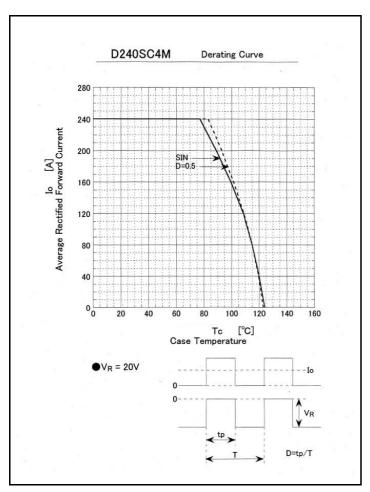
## **CHARACTERISTIC DIAGRAMS**

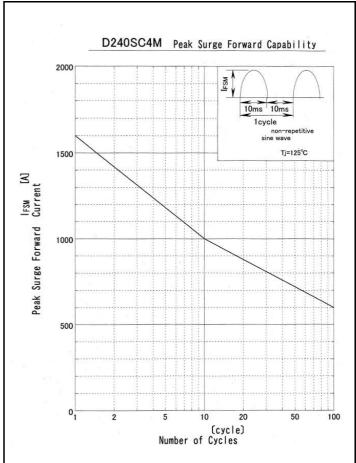


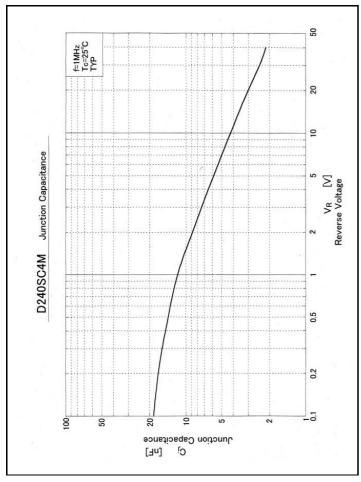






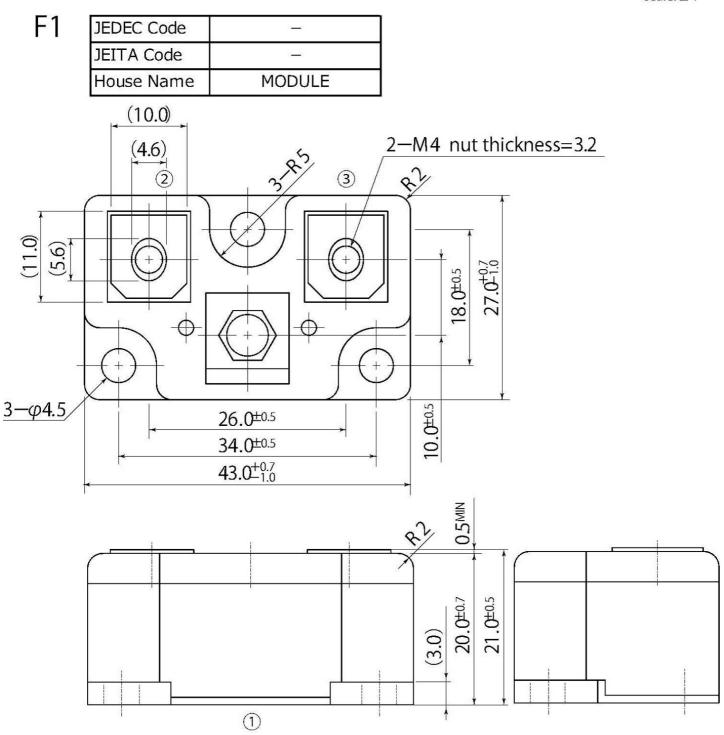






unit:mm

scale: 2/1



#### **Notes**

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