

D240SC4M

Schottky Barrier Diodes
40V, 240A

Feature

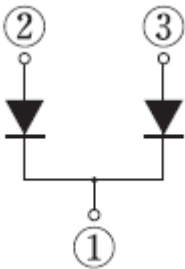
- High Io Rating Module Package
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): Module



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	VRRM		40	V
Repetitive peak surge reverse voltage	VRRSM	Pulse width 100ns, duty=1/100	48	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each arm IF(AV)/2, Tc=77°C	240	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive, 1cycle, Peak value, per arm, Tj=125°C	1600	A
Mounting torque	TOR		1.7	N•m

※ :See the original Specifications

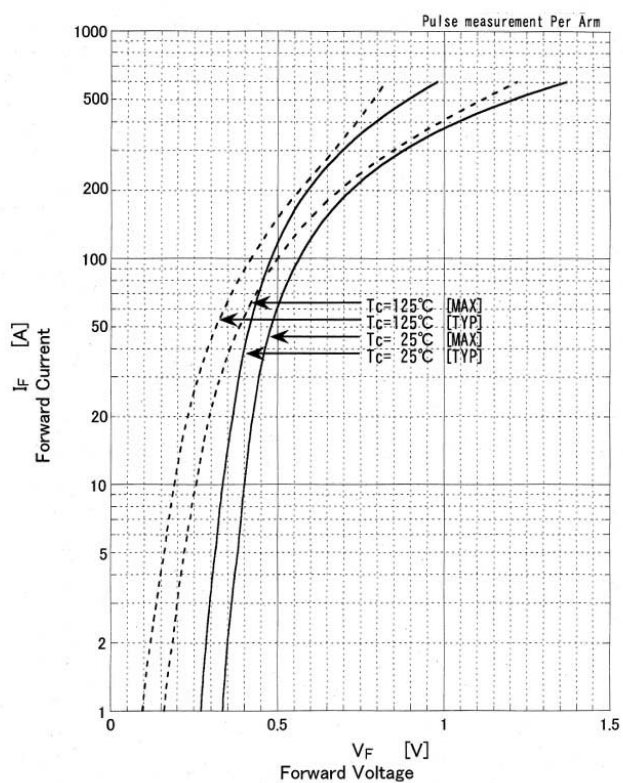
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =120A, Pulse measurement, per arm			0.6	V
Reverse current	I _R	V _R =40V, Pulse measurement, per arm			80	mA
Total capacitance	C _t	f=1MHz, V _R =10V, per arm		4200		pF
Thermal resistance	R _{th(j-c)}	Junction to case			0.23	°C/W

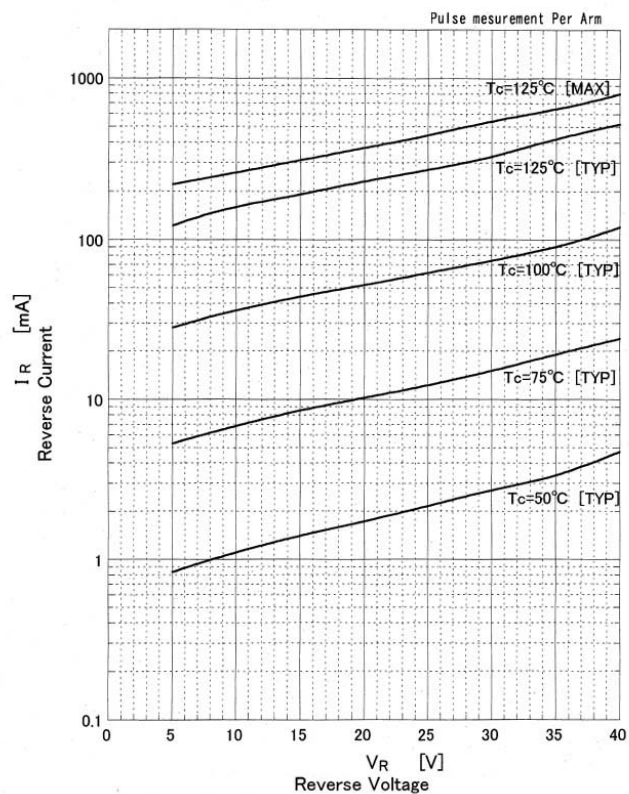
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

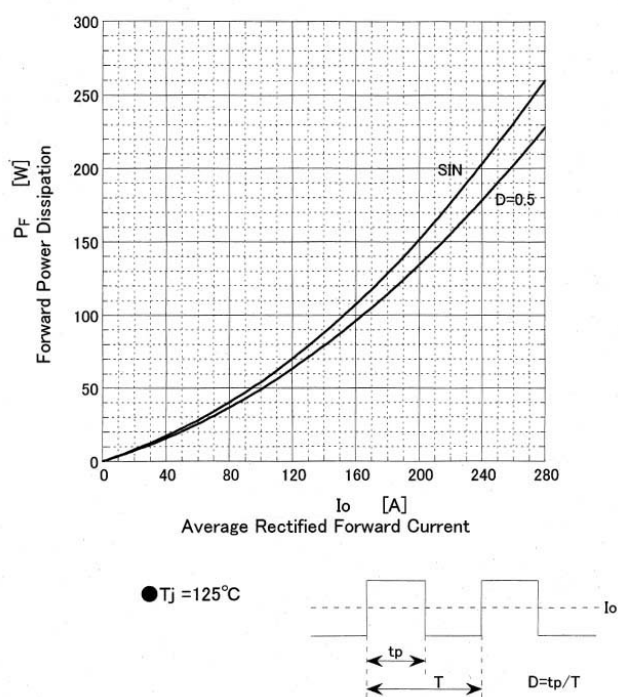
D240SC4M Forward Voltage



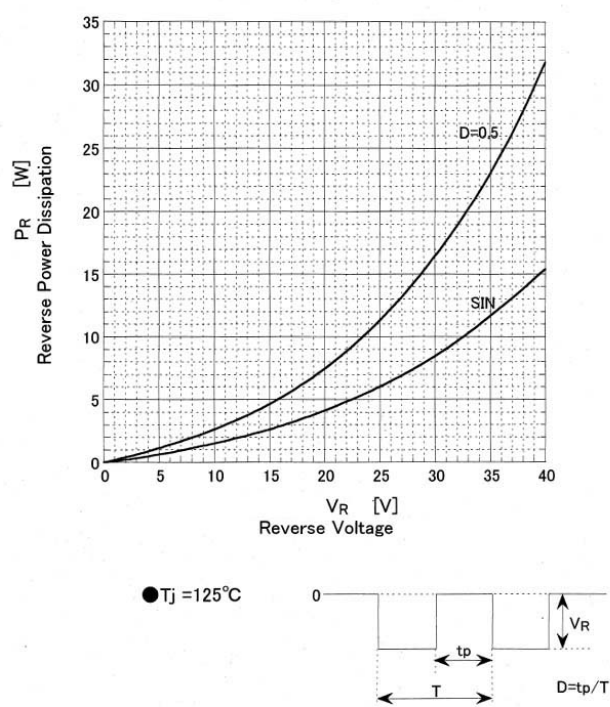
D240SC4M Reverse Current



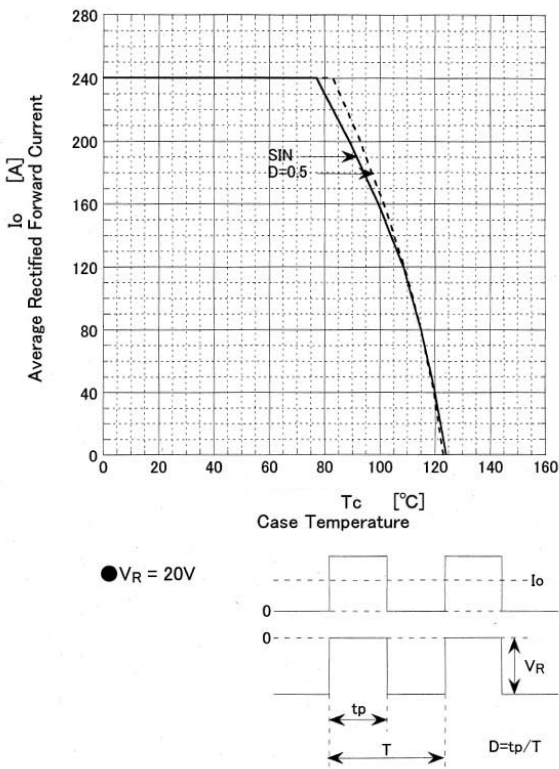
D240SC4M Forward Power Dissipation



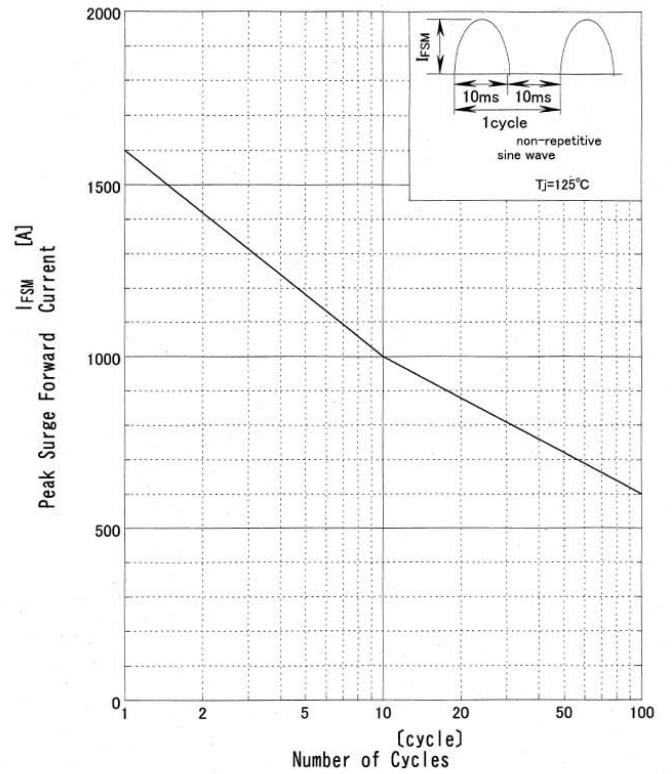
D240SC4M Reverse Power Dissipation



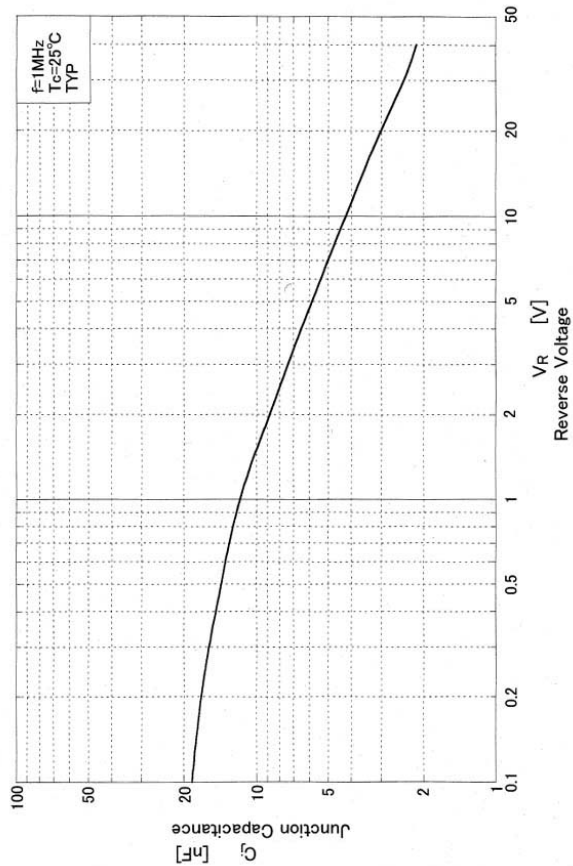
D240SC4M Derating Curve



D240SC4M Peak Surge Forward Capability

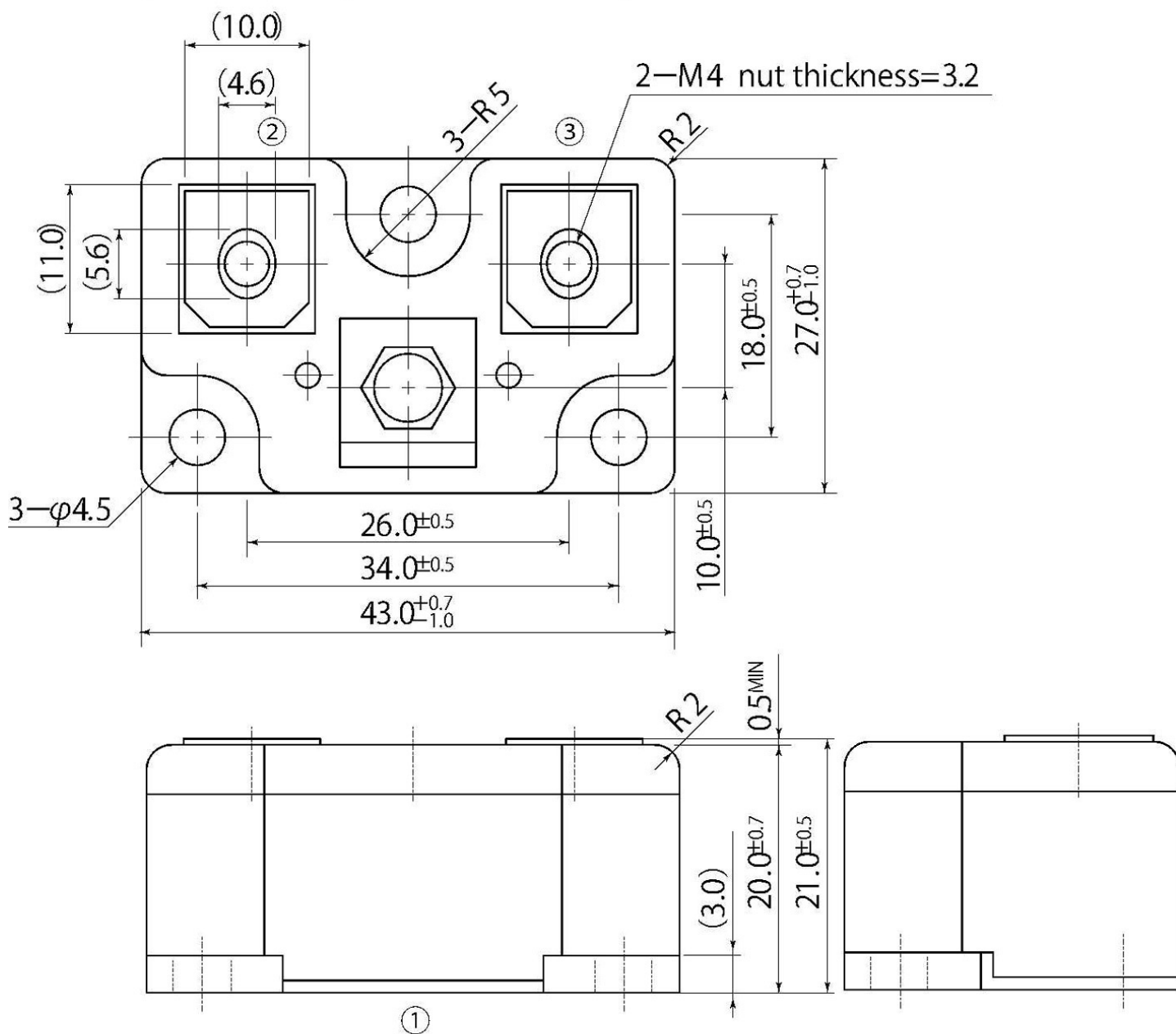


D240SC4M Junction Capacitance



F1

JEDEC Code	—
JEITA Code	—
House Name	MODULE



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