

D180SC6M

Schottky Barrier Diodes
60V, 180A

Feature

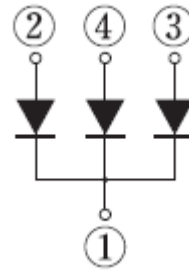
- High Io Rating Module Package
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): Module



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Repetitive peak reverse voltage	VRRM		60	V
Repetitive peak surge reverse voltage	VRRSM	Pulse width 100ns, duty=1/100	65	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each arm IF(AV)/3, Tc=78°C	180	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive, 1 cycle, Peak value, per arm, Tj=125°C	800	A
Mounting torque	TOR		1.7	N·m

* : See the original Specifications

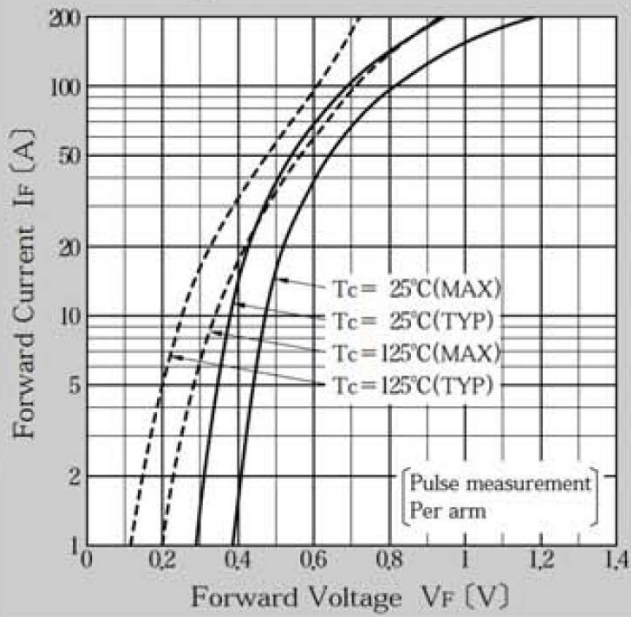
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =60A, Pulse measurement, per arm			0.67	V
Reverse current	I _R	V _R =60V, Pulse measurement, per arm			40	mA
Total capacitance	C _t	f=1MHz, V _R =10V, per arm		2200		pF
Thermal resistance	R _{th(j-c)}	Junction to case			0.25	°C/W

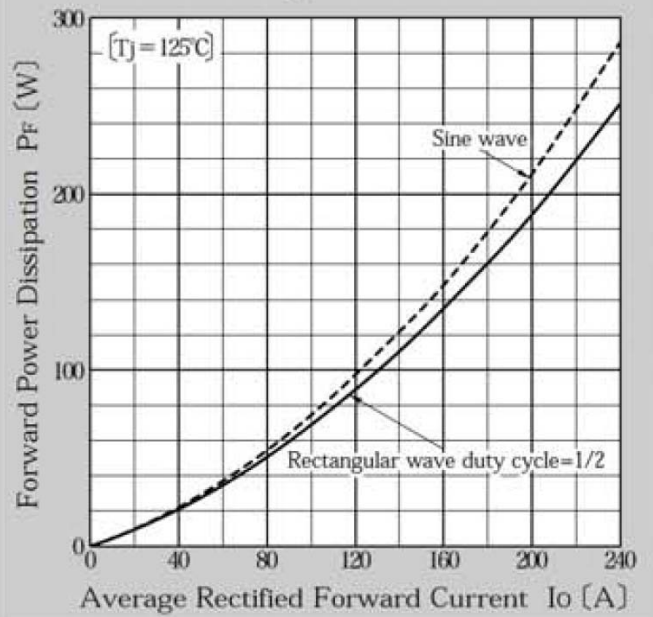
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

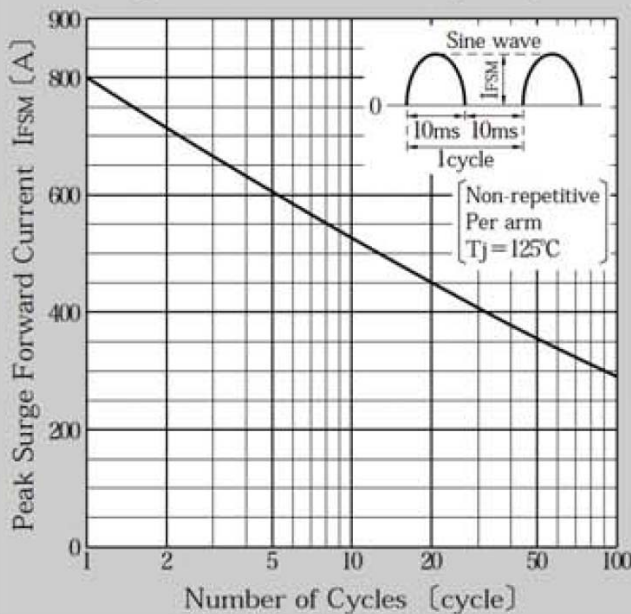
Forward Voltage



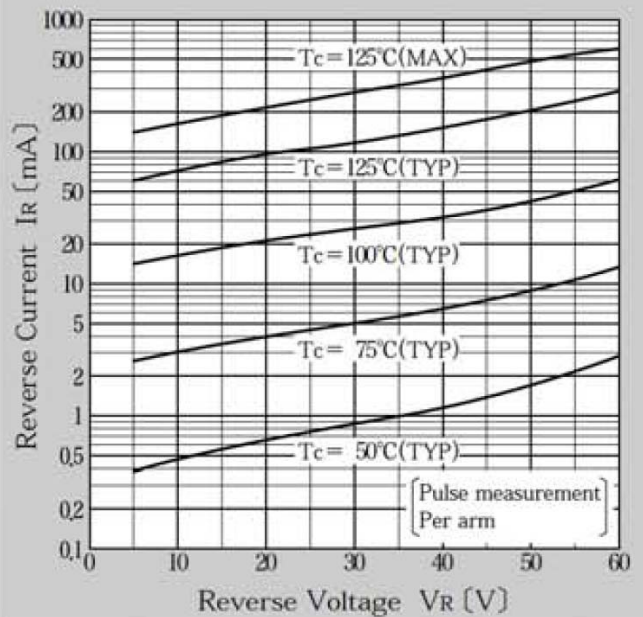
Forward Power Dissipation



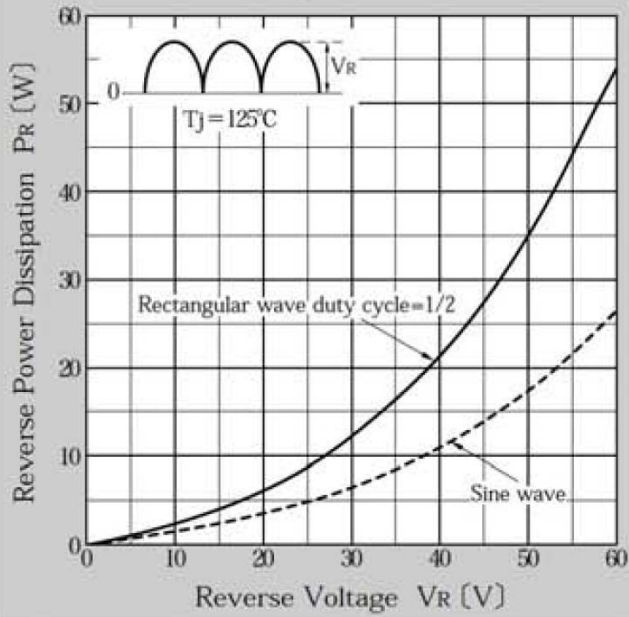
Peak Surge Forward Current Capability



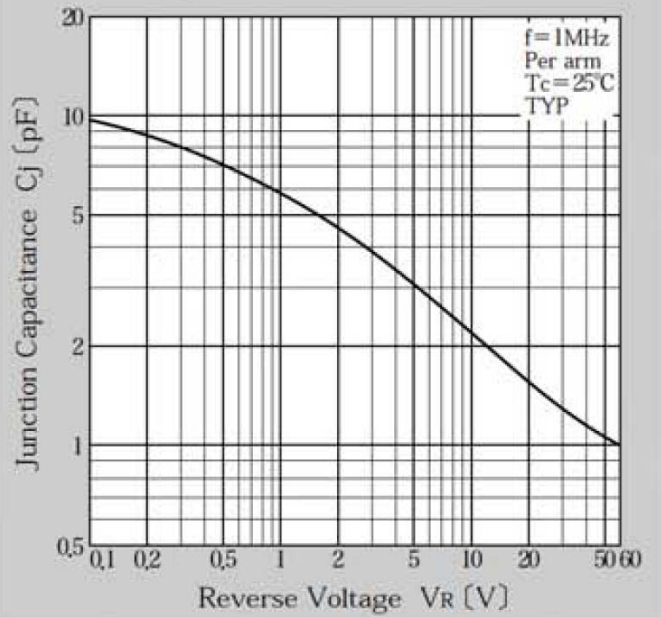
Reverse Current



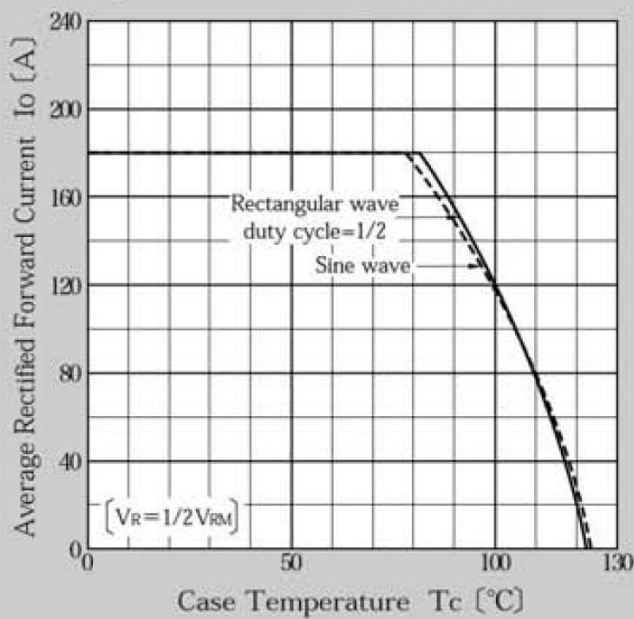
Reverse Power Dissipation



Junction Capacitance

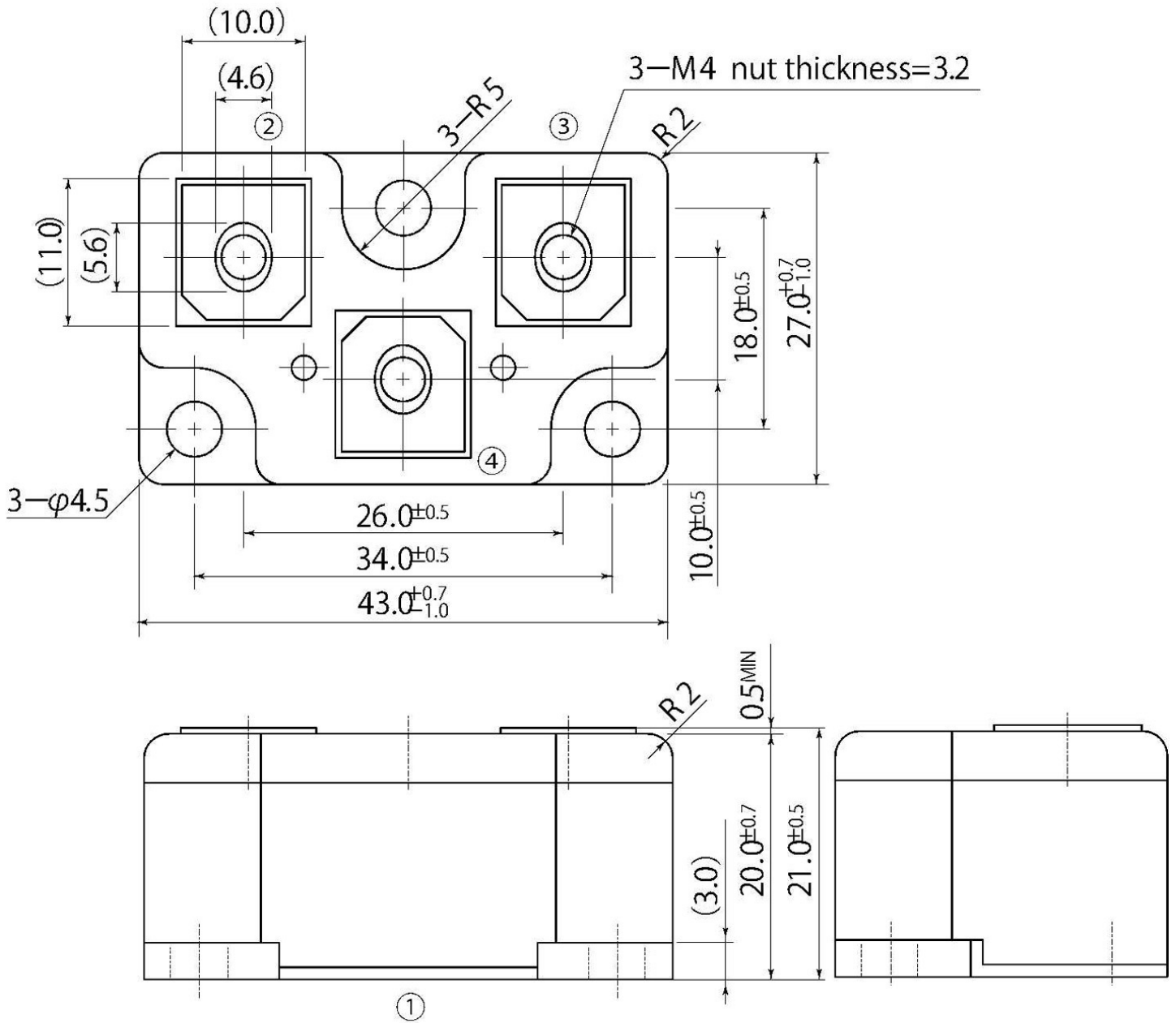


Derating Curve T_c - I_o



F3

JEDEC Code	-
JEITA Code	-
House Name	MODULE



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