

D120SC6M
Schottky Barrier Diodes
60V, 120A

Feature

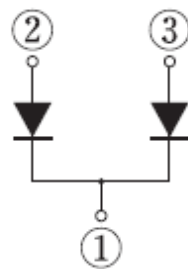
- High Io Rating Module Package
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

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	V _{RRM}		60	V
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 100ns, duty=1/100	65	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Rating for each arm IF(AV)/2, Tc=85°C	120	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, per arm, Tj=125°C	800	A
Mounting torque	TOR		1.7	N·m

※ :See the original Specifications

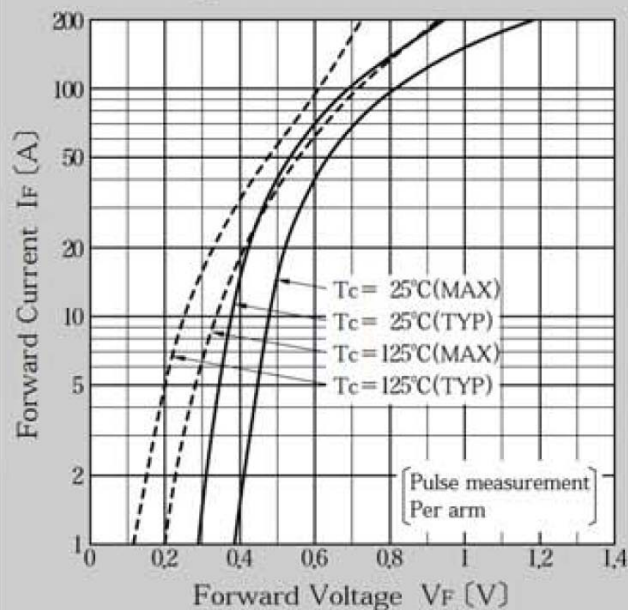
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=60A, Pulse measurement, per arm			0.67	V
Reverse current	I_R	VR=60V, Pulse measurement, per arm			40	mA
Total capacitance	C_t	f=1MHz, VR=10V, per arm		2200		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case			0.34	°C/W

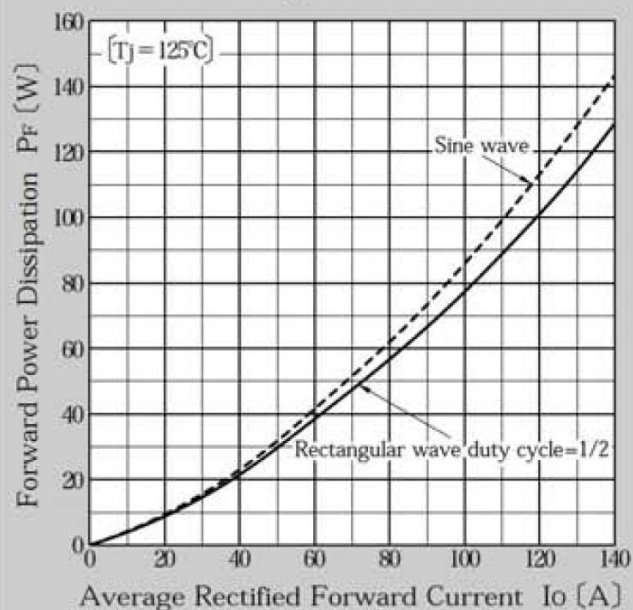
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

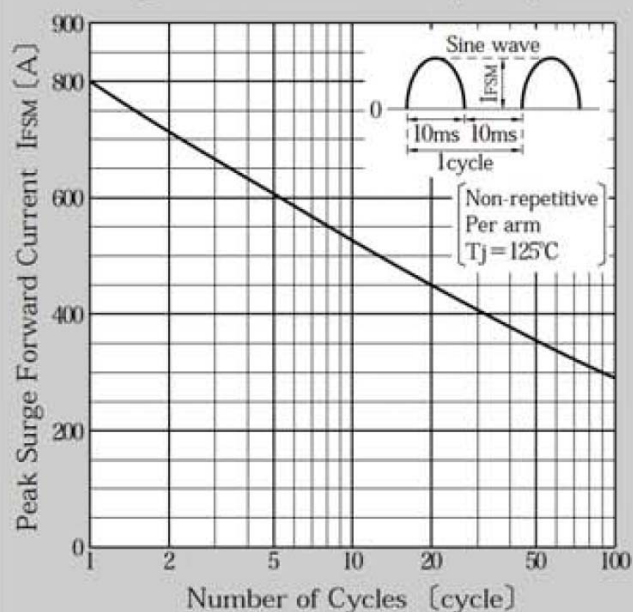
Forward Voltage



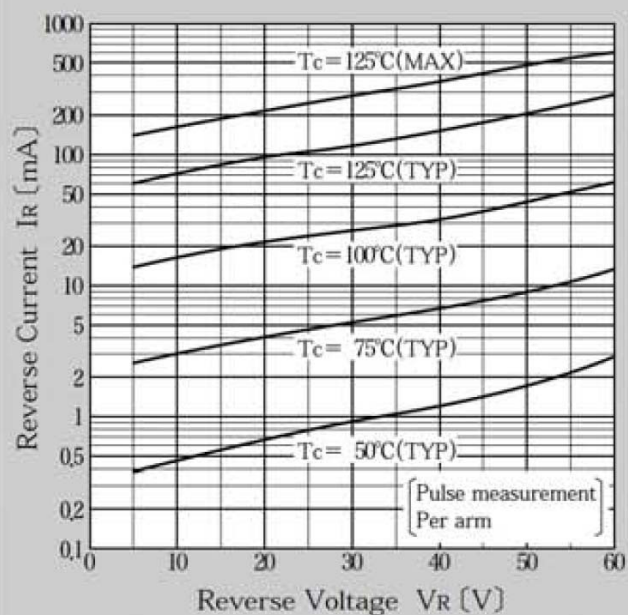
Forward Power Dissipation



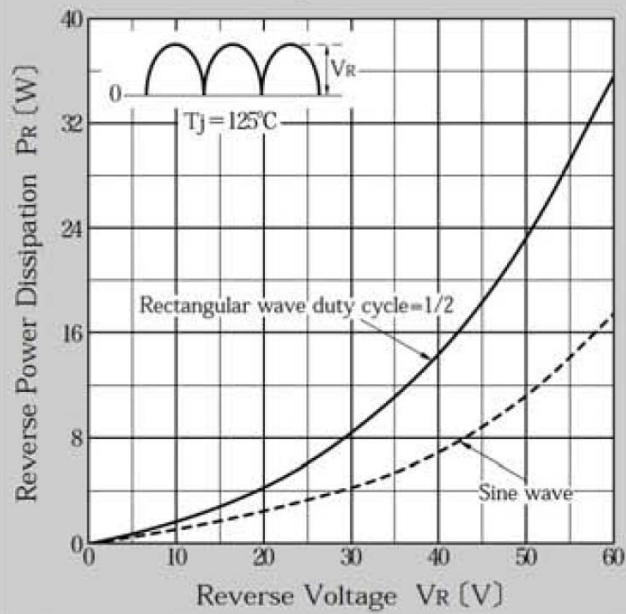
Peak Surge Forward Current Capability



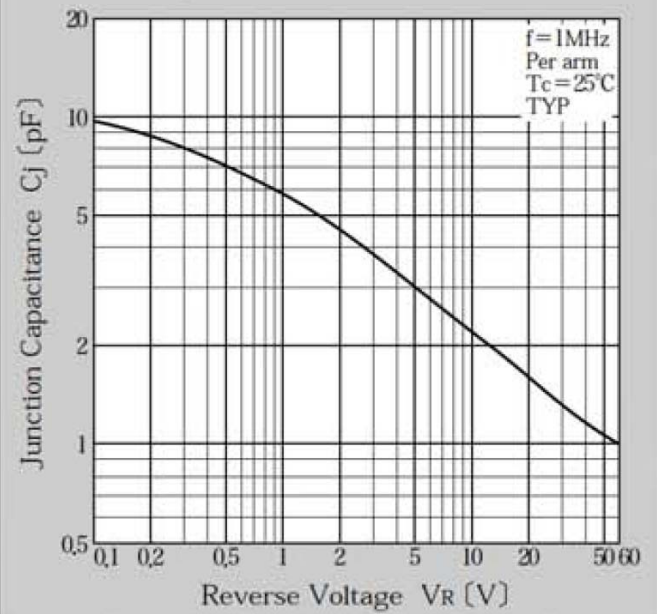
Reverse Current



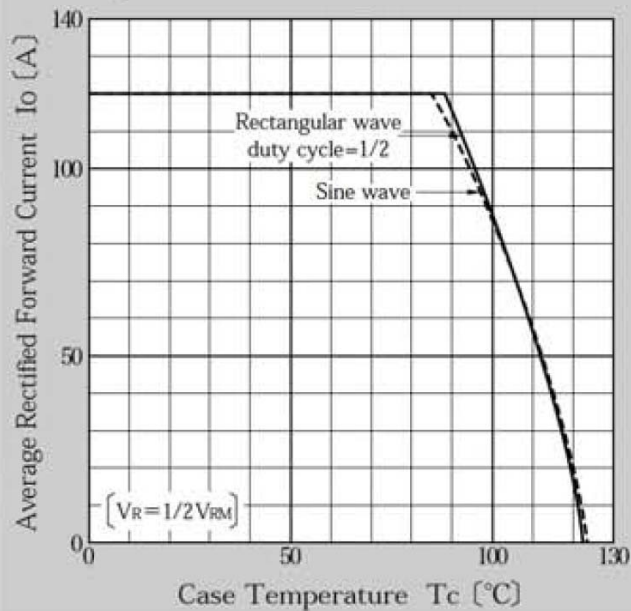
Reverse Power Dissipation



Junction Capacitance

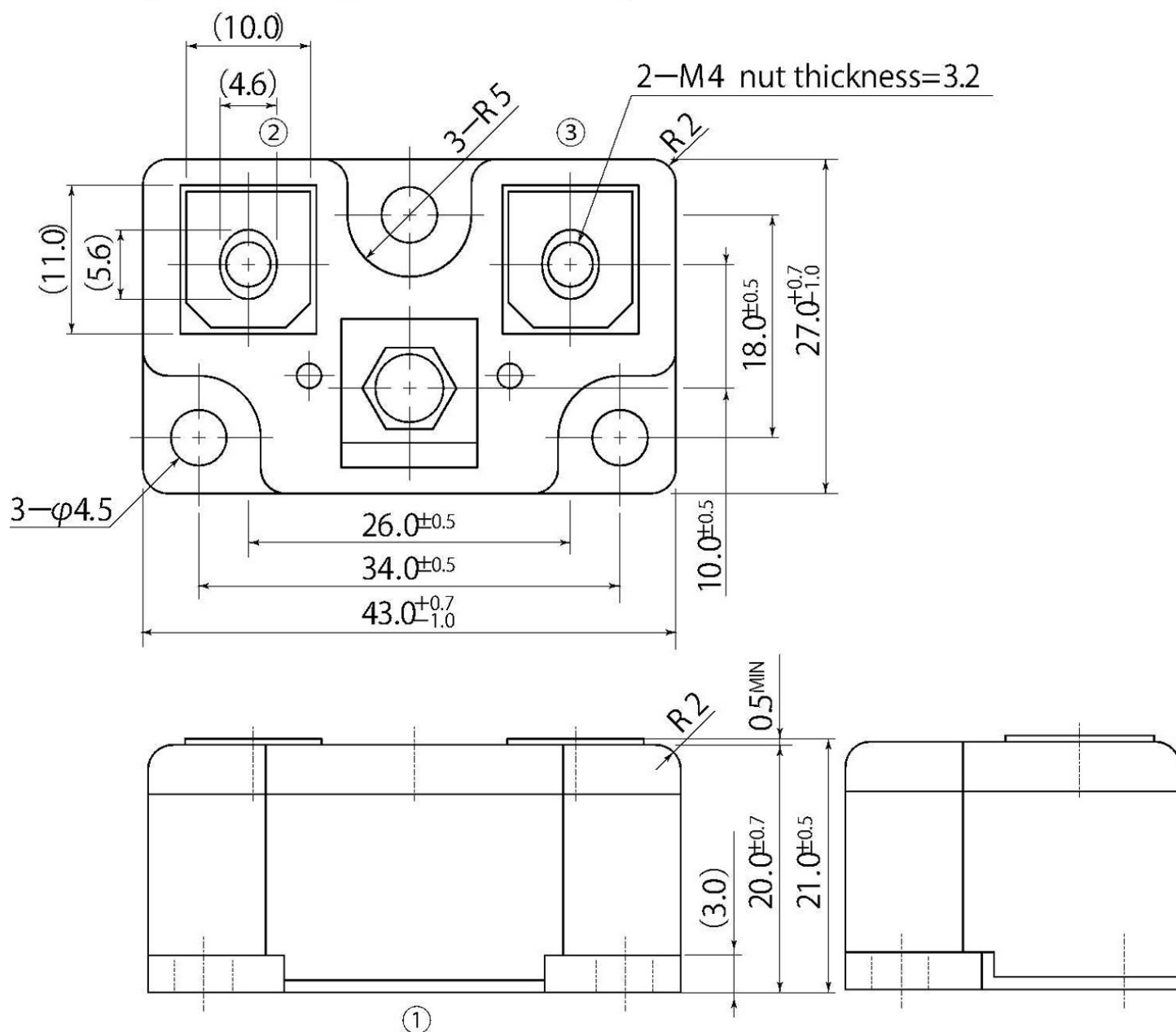


Derating Curve T_c - I_o



F1

JEDEC Code	—
JEITA Code	—
House Name	MODULE



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