

# D120SC6M

Schottky Barrier Diodes  
60V, 120A

**Feature**

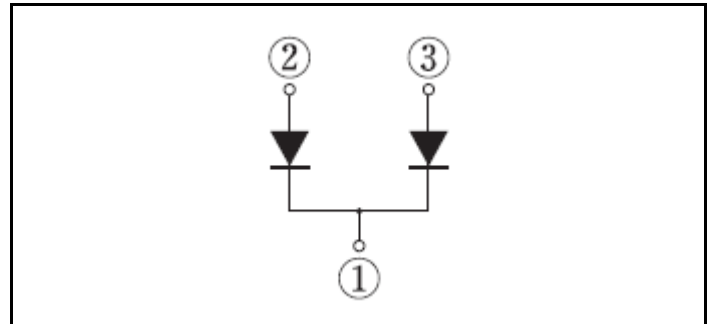
- High Io Rating Module Package
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

**OUTLINE**

Package (House Name): Module



**Equivalent circuit**



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

Item	Symbol	Conditions	Ratings	Unit
Storage 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)/2, Tc=85°C	120	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

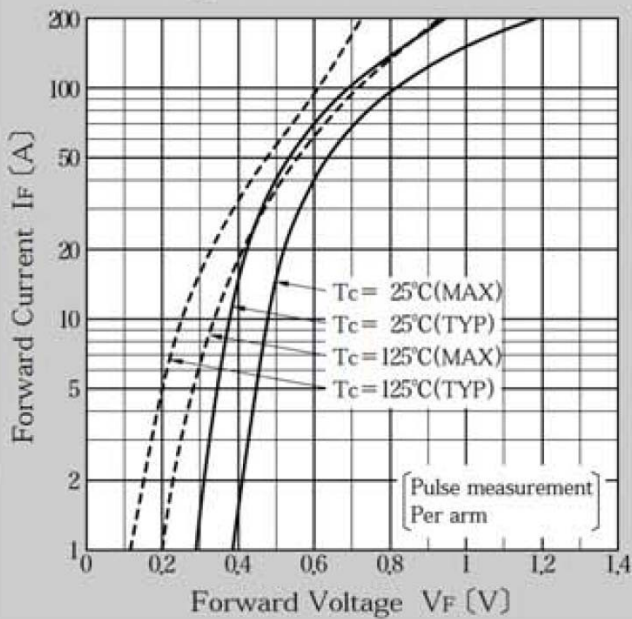
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =60A, Pulse measurement, per arm			0.67	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =60V, Pulse measurement, per arm			40	mA
Total capacitance	C <sub>t</sub>	f=1MHz, V <sub>R</sub> =10V, per arm		2200		pF
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case			0.34	°C/W

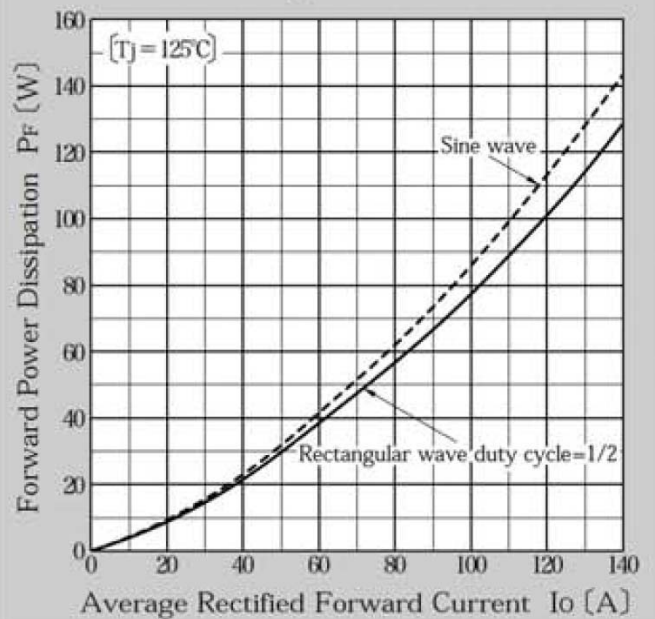
\* : See the original Specifications

# CHARACTERISTIC DIAGRAMS

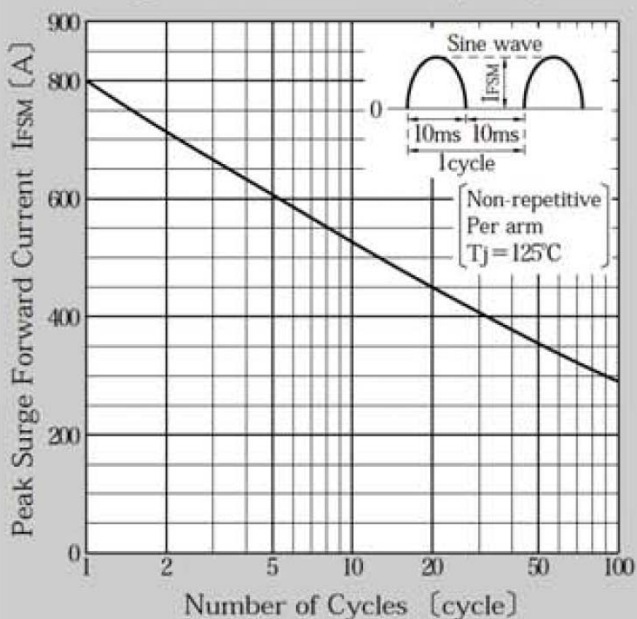
### Forward Voltage



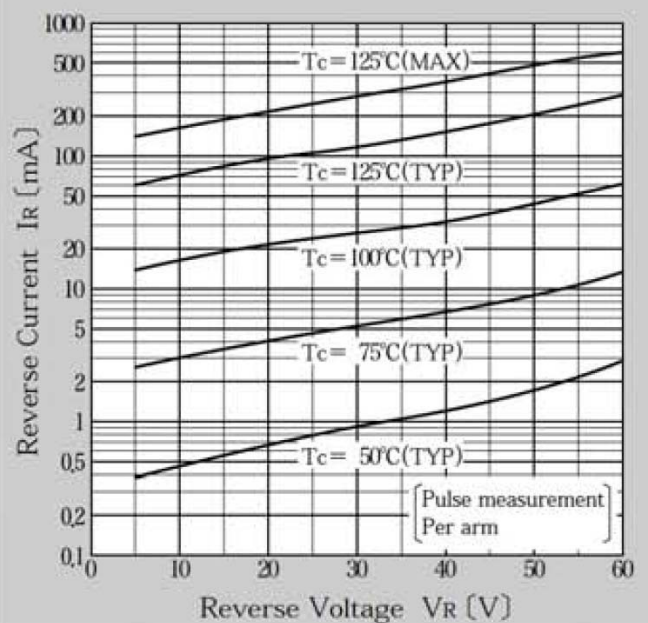
### Forward Power Dissipation



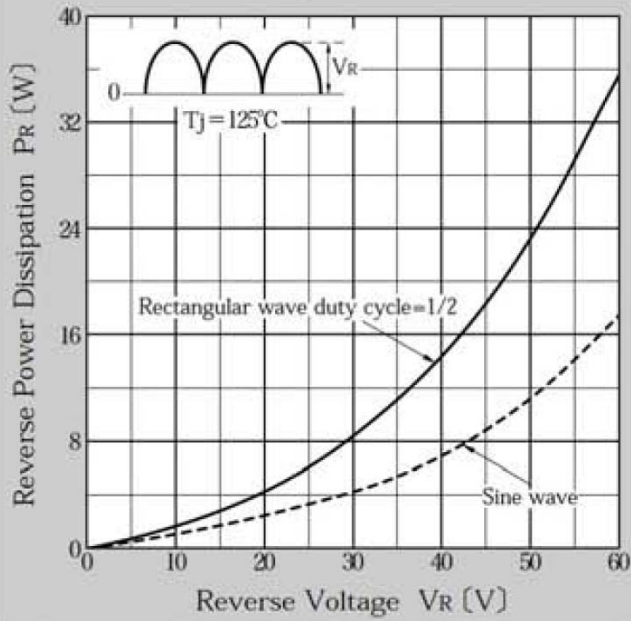
### Peak Surge Forward Current Capability



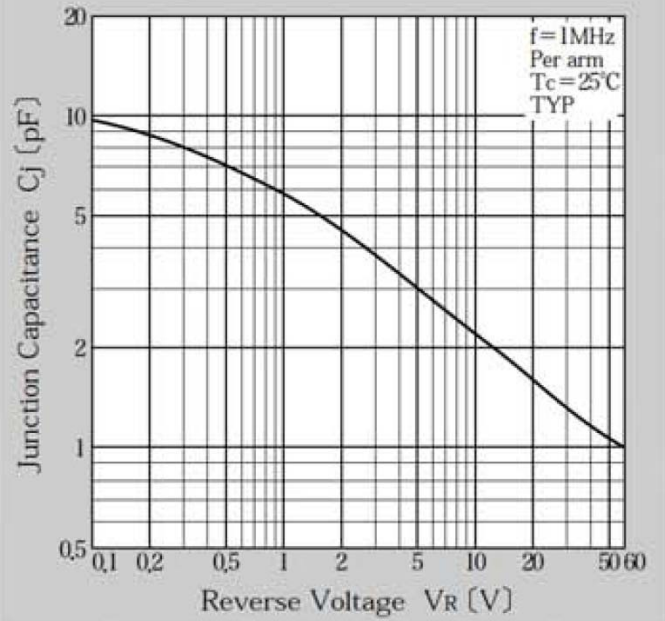
### Reverse Current



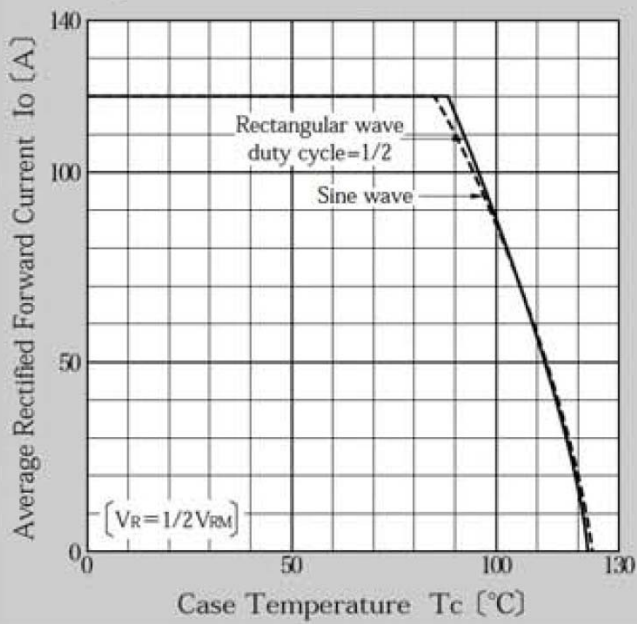
### Reverse Power Dissipation



### Junction Capacitance



### Derating Curve $T_c$ - $I_o$



F1

JEDEC Code	-
JEITA Code	-
House Name	MODULE

