

D180SC4M

Schottky Barrier Diodes 40V, 180A

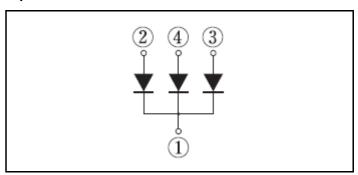
Feature

- High Io Rating Module Package
- High Recovery Speed
- $\bullet \ Low \ V_F$
- · 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 _{RRSM}	Pulse width 100ns, duty=1/100	48	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each arm IF(AV)/3, Tc=83°C	180	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, per arm, Tj=125°C	800	Α
Mounting torque	TOR		1.7	N∙m

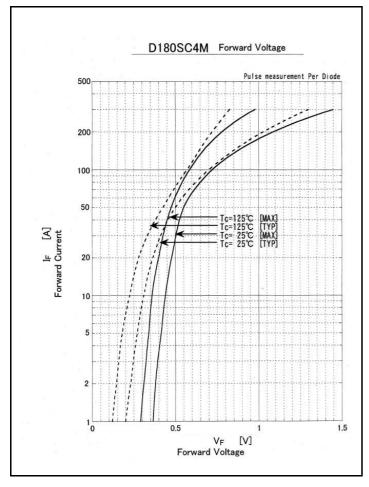
^{* :} See the original Specifications

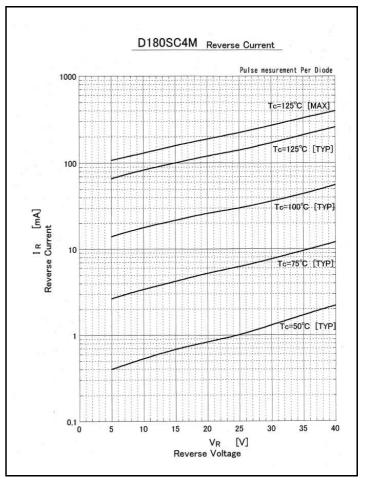
Electrical Characteristics (unless otherwise specified : Tc=25°C)

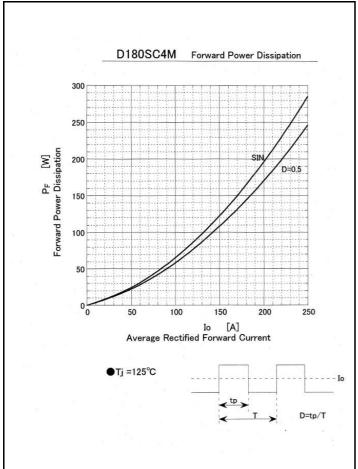
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Ot
Forward voltage	V _F	IF=60A, Pulse measurement, per arm			0.58	V
Reverse current	I _R	VR=40V, Pulse measurement, per arm			40	mA
Total capacitance	Ct	f=1MHz, VR=10V, per arm		2100		pF
Thermal resistance	Rth(j-c)	Junction to case			0.25	°C/W

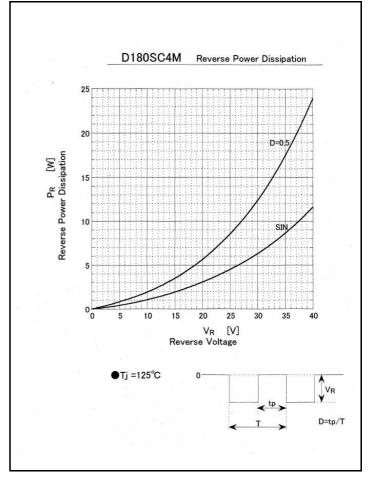
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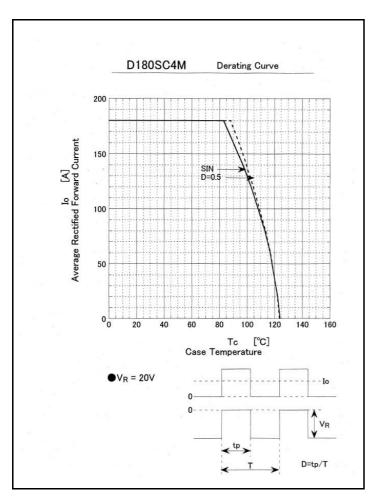
CHARACTERISTIC DIAGRAMS

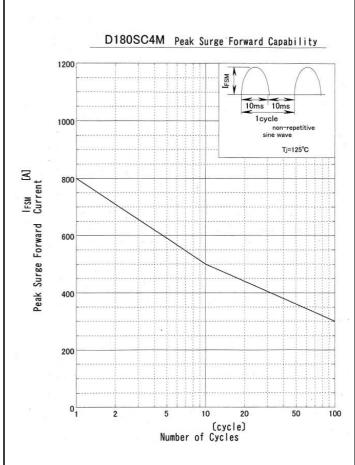


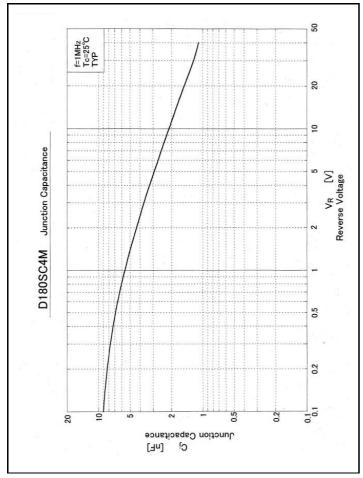


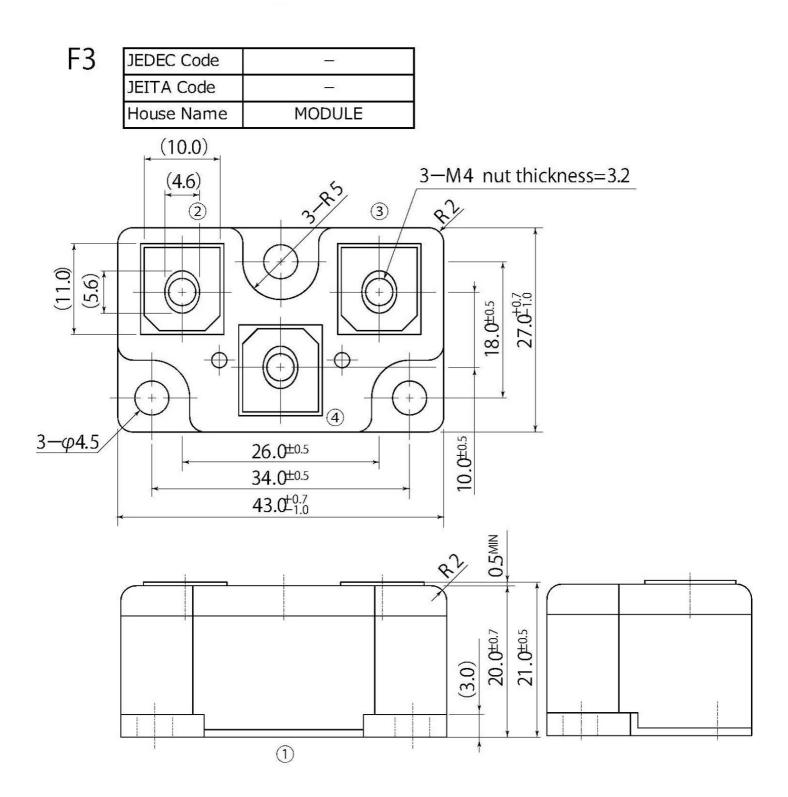












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