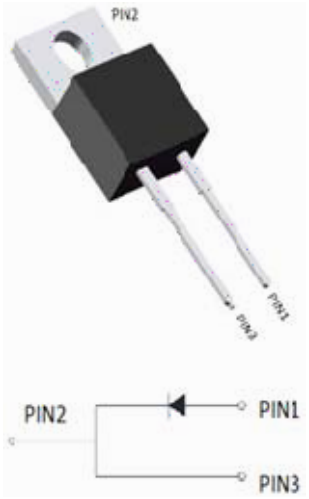
Silicon Carbide Schottky Diode

V_{RRM}	1200V
$I_{F\ 135°C}$	15A
Q_C	53nC



Features

- Positive temperature coefficient
- Temperature-independent switching
- Maximum working temperature at 175 °C
- Unipolar devices and zero reverse recovery current
- Zero forward recovery current
- Essentially no switching y) Data Mechanical

- **Package**: TO-220
- **Terminals**: Tin plated leads
- **Polarity**: As marked

■Maximum Ratings (T_C=25 Unless otherwise specified

PARAMTETER	SYMBOL	UNIT	VALUE
Device marking code			D112010PQG2
Reverse voltage (repetitive peak) @ T_j=25°C	V_{RRM}	V	1200
Reverse voltage (Surge Peak) @ T_j=25°C	V_{RSM}	V	1200
Reverse voltage (DC) @ T_j=25°C	V_{DC}	V	1200
Continuous forward current @ T_c=25°C	I_F	A	31
Continuous forward current @ T_c=135°C			15
Continuous forward current @ T_c=157°C			10
Non-repetitive peak forward surge current @ T_c=25°C, tp=10ms, Half Sine Wave	I_{FSM}	A	85
Power Dissipation@ T_c=25°C	P_{TOT}	W	170
Power Dissipation@ T_c=110°C			73
i^2t Value@ Tc=25°C ,tp=10ms	i^2dt	A^2S	36
Operating junction and Storage temperature range	T_j ,T_{stg}	°C	-55 to +175

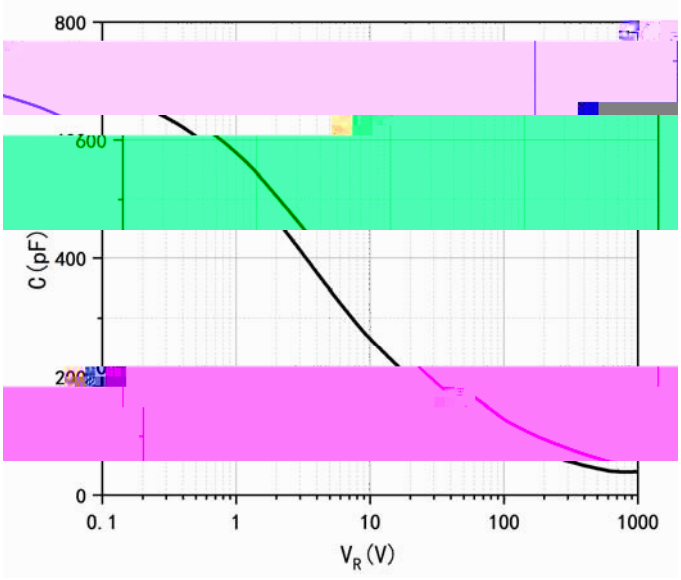


Figure 3. Capacitance vs. Reverse Voltage

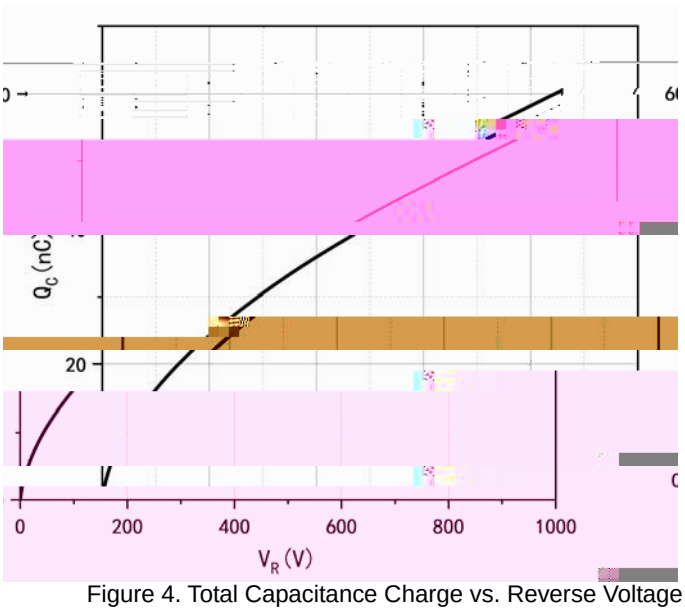


Figure 4. Total Capacitance Charge vs. Reverse Voltage

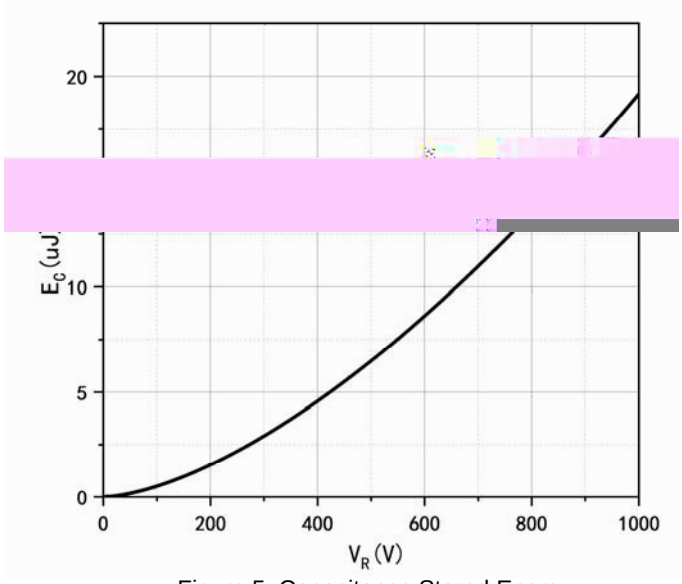


Figure 5. Capacitance Stored Energy

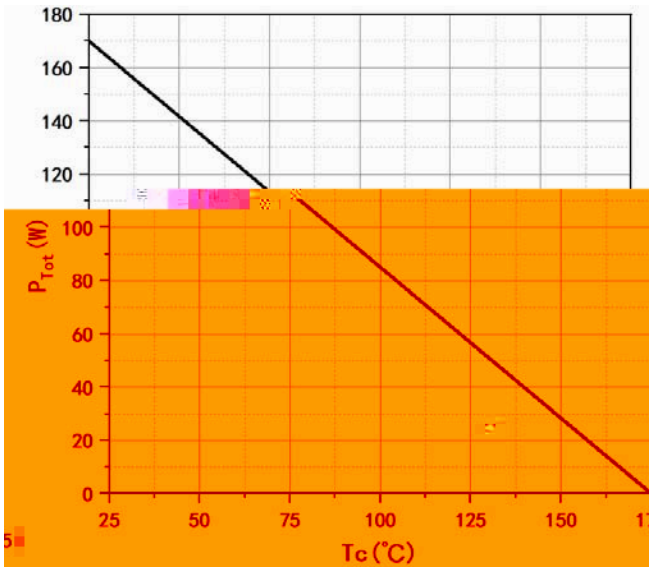


Figure 6. Power Derating

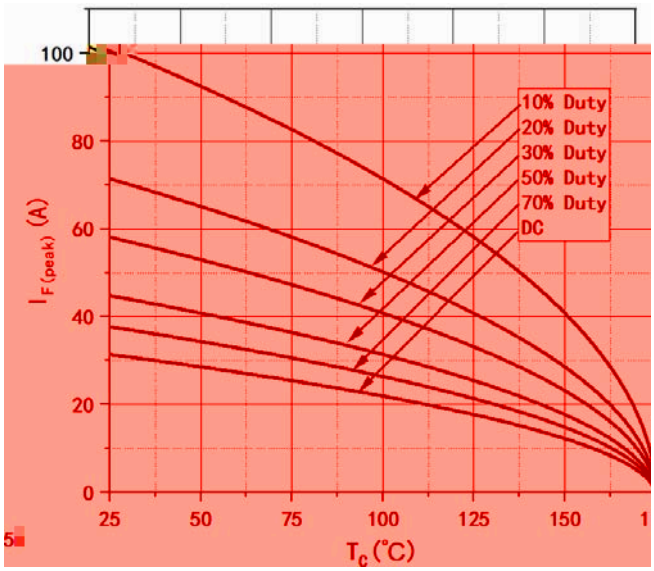


Figure 7. Current Derating

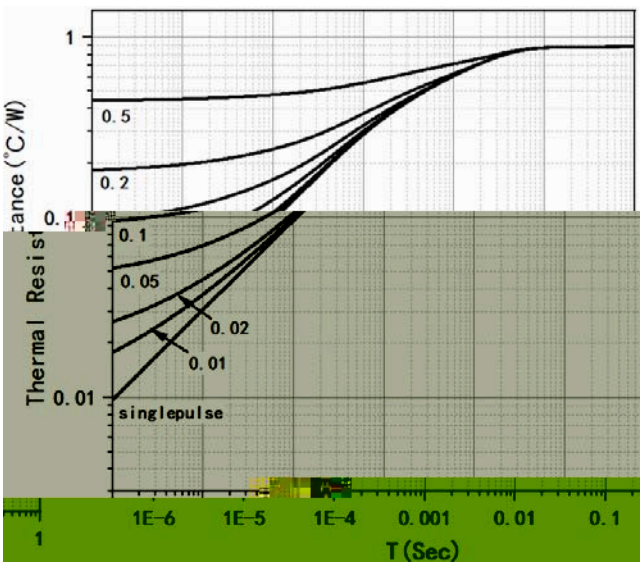
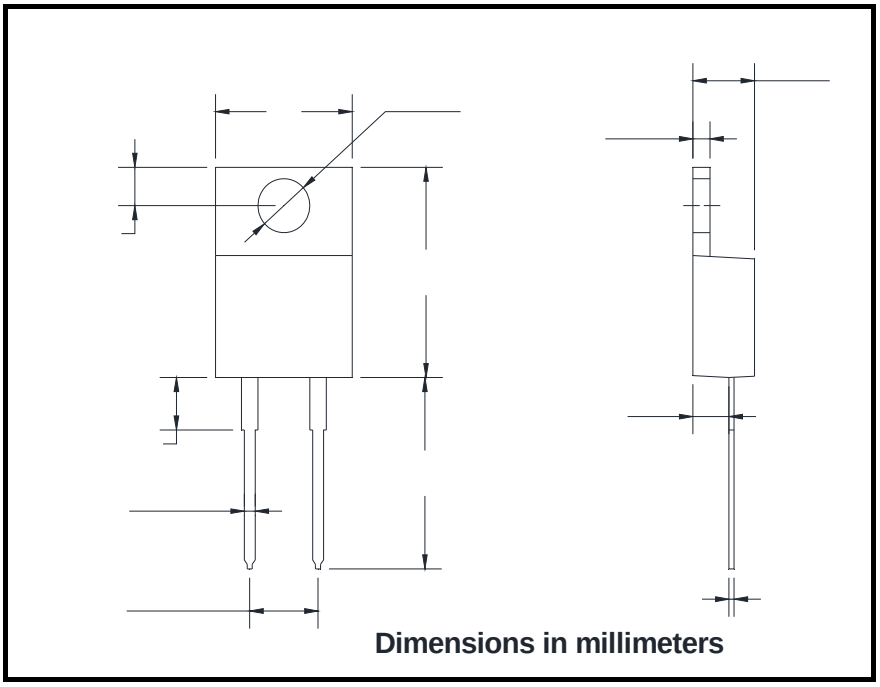


Figure 8. Transient Thermal Impedance

■Outline Dimensions



TO-220AC		
Dim	Min	Max
A	9.95	10.35
B	2.55	2.95
C	3.75	4.05
D	14.95	15.25
E	3.75	4.25
F	0.26	0.5
G	0.68	0.94
H	13.3	13.9
I	4.86	5.26
J	4.38	4.78
K	1.14	1.4
L	2.37	2.79

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