

## 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

VALUE



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





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Figure 3. Capacitance vs. Reverse Voltage

Figure 4. Total Capacitance Charge vs. Reverse Voltage

Figure 5. Capacitance Stored Energy

Figure 6. Power Derating

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Figure 7. Current Derating





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