- 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

- : TO-263
- : Tin plated leads
- : As marked

■ (T_C=25 Unless otherwise specified

Device marking code			D112010BQG2
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	33
Continuous forward current @ T_c=135°C			14
Continuous forward current @ T_c=141°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	158
Power Dissipation@ T_c=110°C			68
i^2t Value@ Tc=25°C ,tp=10ms	$\int i^2dt$	A^2S	36
Operating junction and Storage temperature range	T_j ,T_{stg}	°C	-55 to +175

■

Forward voltage drop	V_F	V	I_F=10A, T_j=25°C	1.42	1.54
			I_F=10A, T_j=175°C	2.1	-
Reverse leakage current	I_R	μA	V_R=1200V, T_j=25°C	1.3	13
			V_R=1200V, T_j=175°C	6	-
Total capacitive charge	Q_C	nC	V_R=800V, T_j=25°C , $QC=\int_0^{VR} C(V)dV$	53	
Total capacitance	C	pF	V_R=0V, f=1MHZ	700	-
			V_R=400V, f=1MHZ	49	-
			V_R=800V, f=1MHZ	39	-
Capacitance Stored Energy	E_C	μJ	V_R=800V	14	-

■ T_a=25 Unless otherwise specified

Thermal resistance	$R_{\theta J-C}$	°C /W	0.95

■

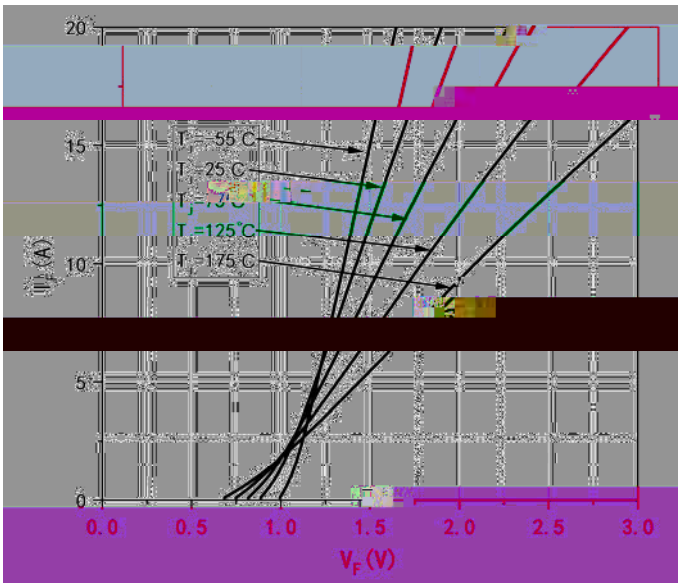

Figure 1. Forward Characteristics

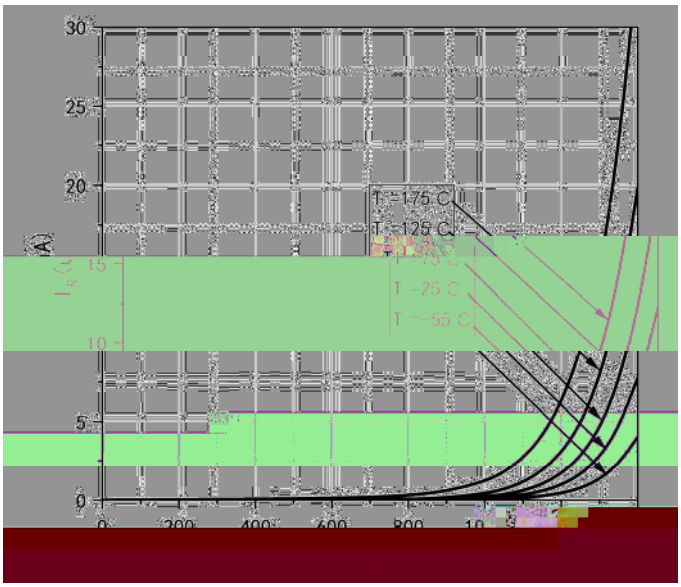

Figure 2. Reverse Characteristic

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