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 losses Reduction of heat sink requirements High-frequency operation Reduction of EMI

Typical applications are in power factor correction(PFC), solar inverter, uninterruptible power supply, motor drives, photovoltaic inverter, electric car and charger.

: TO-263 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free : Tin plated leads : As marked

Device marking code			D106510BQG2		
Reverse voltage (repetitive peak) @ T _i =25°C	V	®	T eÑ	Â	

(T_c=25 Unless otherwise specified)

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Forward voltage drop	V _F	V	I _F =10A, T _j =25°C	1.35	1.55
			I _F =10A, T _j =175°C	1.8	-
Reverse leakage current	I _R	μΑ	V _R =650V, T _j =25°C	0.5	25
			V _R =650V, T _j =175°C	2	-
Total capacitive charge	Qc	nC	V_R =400V, T _j =25°C , QC= $_0^{VR}C(V)dV$	30	-
Total capacitance	С	pF	V _R =0V, f=1MHZ	543	-
			V _R =200V, f=1MHZ	55	-
			V _R =400V, f=1MHZ	52	-
Capacitance Stored Energy	Ec	μJ	V _R =400V	3.7	-

(Ta=25 Unless otherwise specified)

(
Thermal resistance	R _{J-C}	°C /W	1.1

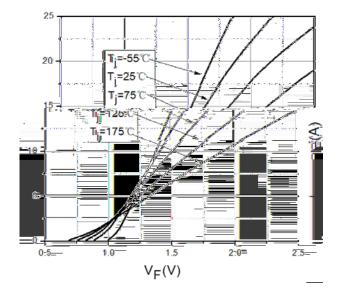
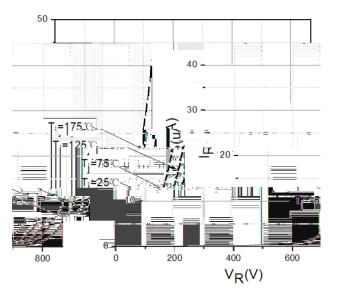
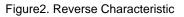
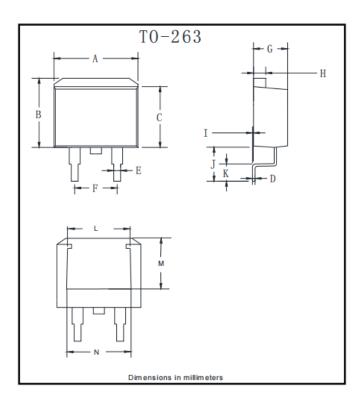


Figure 1. Forward Characteristics





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TO-263				
Dim	Min	Max		
Α	9.5	11.5		
В	9.7	10.5		
С	8.4	9.0		
D	0.28	0.64		
E	0.68	0.94		
F	4.55	5.6		
G	4.04	5.10		
Н	1.14	1.4		
I	0	0.2		
J	4.9	6.05		
к	1.79	2.79		
L	7.3	7.9		
M	6.2	6.8		
N	7.6	8.2		

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