



- 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

(T_C=25 Unless otherwise specified)

@ T			
Reverse voltage (repetitive peak)			D106510BQG2

Reverse voltage (repetitive peak)
 @ T_C=25°C

3-SIG04M



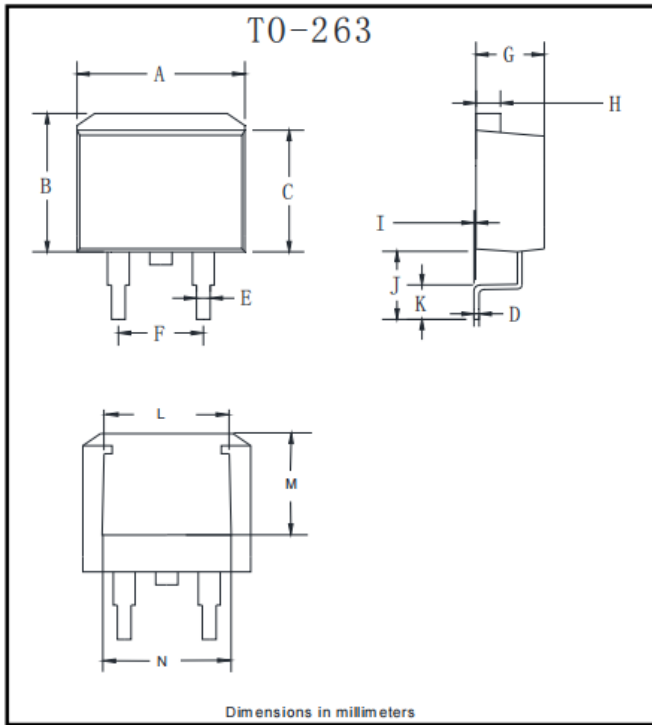


Forward voltage drop	V_F	V	$I_F=10A, T_j=25^{\circ}C$	1.35	1.55
			$I_F=10A, T_j=175^{\circ}C$	1.8	-
Reverse leakage current	I_R	μA	$V_R=650V, T_j=25^{\circ}C$	0.5	25
			$V_R=650V, T_j=175^{\circ}C$	2	-
Total capacitive charge	Q_C	nC	$V_R=400V, T_j=25^{\circ}C, Q_C=\int_0^{V_R} C(V)dV$	30	-
Total capacitance	C	pF	$V_R=0V, f=1MHz$	543	-
			$V_R=200V, f=1MHz$	55	-
			$V_R=400V, f=1MHz$	52	-
Capacitance Stored Energy	E_C	μJ	$V_R=400V$	3.7	-

($T_a=25$ Unless otherwise specified)

Thermal resistance	R_{J-C}	$^{\circ}C/W$	1.1
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TO-263		
Dim	Min	Max
A	9.5	11.5
B	9.7	10.5
C	8.4	9.0
D	0.28	0.64
E	0.68	0.94
F	4.55	5.6
G	4.04	5.10
H	1.14	1.4
I	0	0.2
J	4.9	6.05
K	1.79	2.79
L	7.3	7.9
M	6.2	6.8
N	7.6	8.2



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