- High efficiency
- High current capability

- Part no. with suffix “Q” means AEC-Q101 qualified

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, automotive and telecommunication.

- : DO-214AB (SMC)
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
  r l "
  002 and JESD22-B102
- Color band denotes cathode end

■ (T_a=25 Unless otherwise specified

Device marking code			GS8A	GS8B	GS8D	GS8G	GS8J	GS8K	GS8M
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420	560	700
Average Rectified Output Current @60Hz sine wave, Resistance load, T_L (FIG.1)	I_O	A	8.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Ta=25	I_{FSM}	A	200						
Storage Temperature	T_{STG}		-55 ~+150						
Junction Temperature	T_J		-55 ~+150						

■ T_a=25 Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=8.0A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	Ta=25	10						
			Ta=125	250						
Typical junction capacitance	C_J	pF	1MHz,V_R=4V.							

■ T_a=25 Unless otherwise specified

Thermal Resistance	Junction to ambient	$R_{\theta J-A}$	/W	75[1)]						
	Junction to lead	$R_{\theta J-L}$		12[1)]						

Note(1)
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

■ (Typical)

Fig.1:I_O-T_L Curve

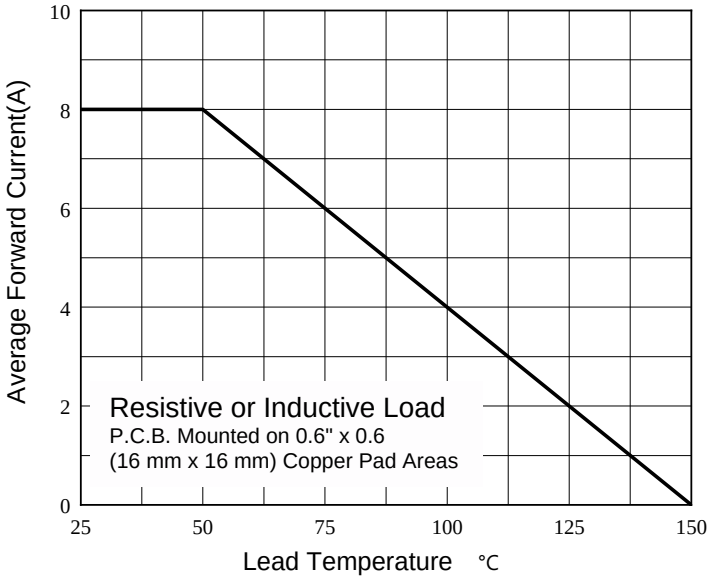


Fig.2:Surge Forward Current Capability

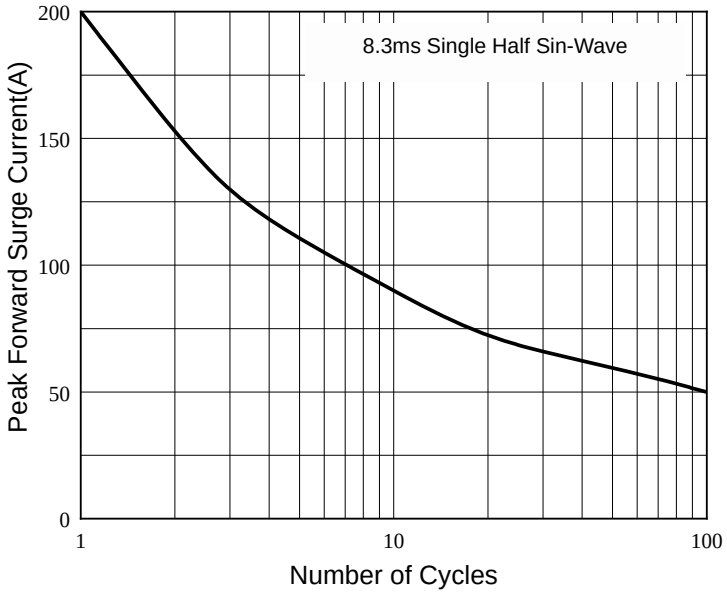


Fig.3:Typical Forward Characteristics

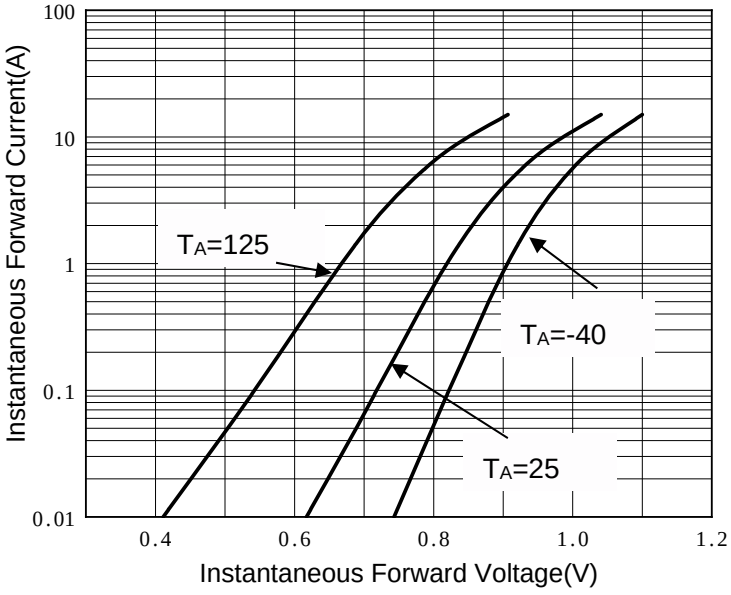
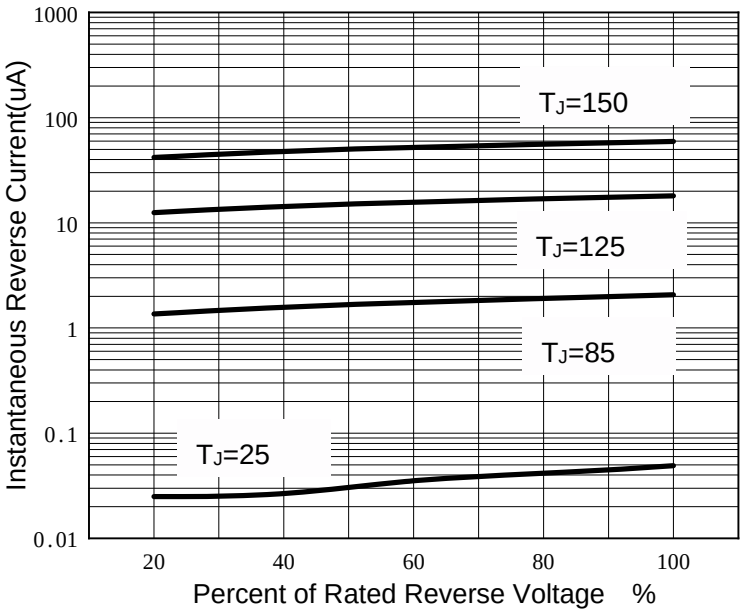


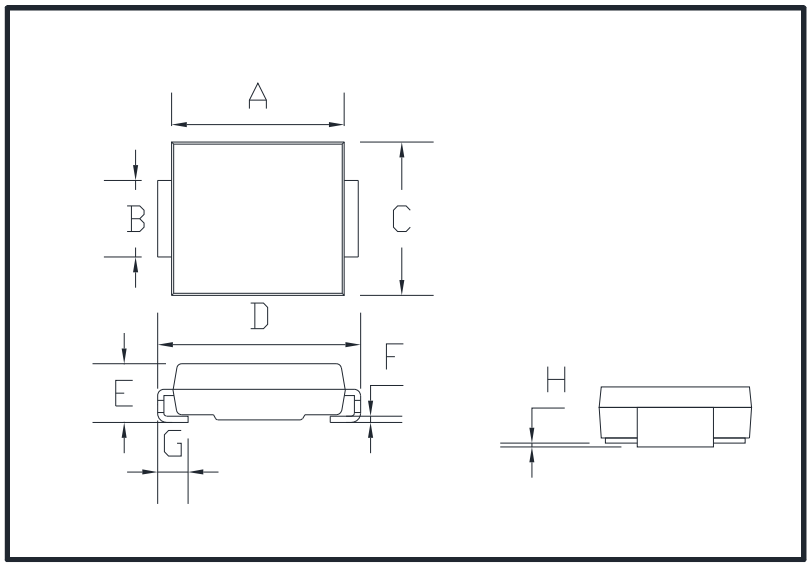
Fig.4:Typical Reverse Characteristics



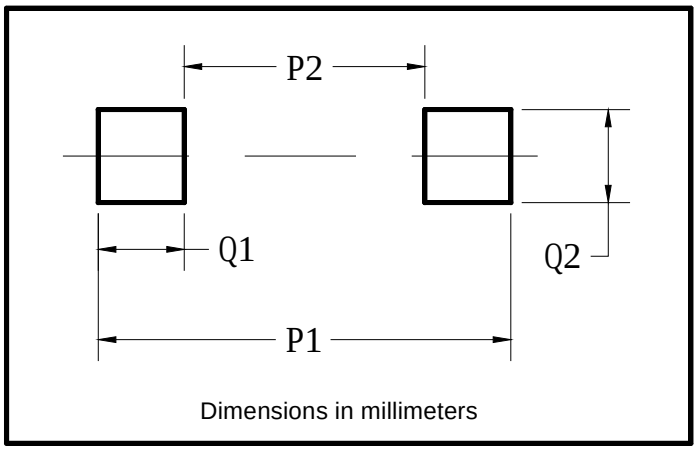
■ (Example)

	F1	Approximate 0.253	3000	/	42000	13” reel

■



DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.05	0.20



Dim	Typ
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82

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