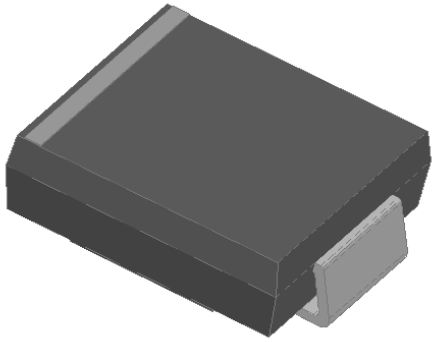
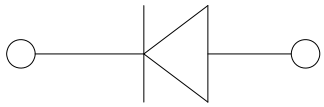
RoHS
COMPLIANT



- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

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



- ackage: DO-214AB (SMC)

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes the cathode end

■ (T_a=25℃ Unless otherwise specified）

Device marking code			GS10A	GS10B	GS10D	GS10G	GS10J	GS10K	GS10M
Maximum 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
Maximum DC Blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, Resistance load, TL (FIG.1)	I_O	A	10						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	200						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃			400						
Current squared time @1ms≤t≤8.3ms Tj=25℃	I^2t	A^2s	166						
Storage Temperature	Tstg		-55 ~ +150						
Junction Temperature	T_j		-55 ~ +150						

■ （T_a=25℃ Unless otherwise specified）

Maximum instantaneous forward voltage	V_F	V	I_{FM}=10A	1.1						
Maximum DC reverse current at rated DC blocking voltage	I_R	μA	T_j=25	5						
			T_j=125	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	55						

■ （T_a=25℃ Unless otherwise specified）

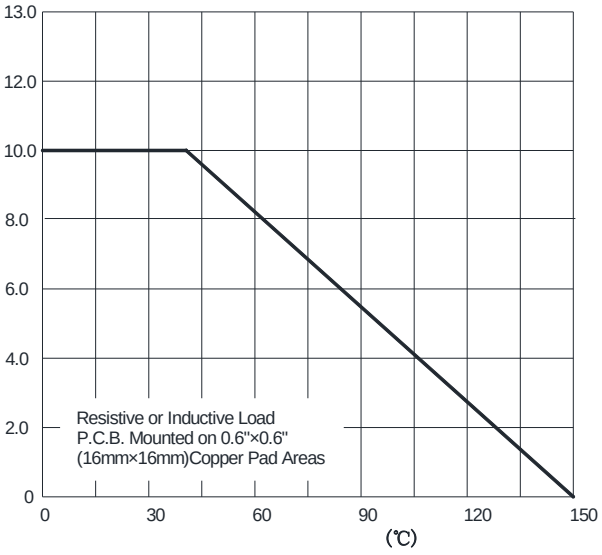
Typical Thermal resistance	$R_{\theta J-A}$(1)	/W	50						
	$R_{\theta J-L}$(1)		10						
	$R_{\theta J-C}$(1)		8						

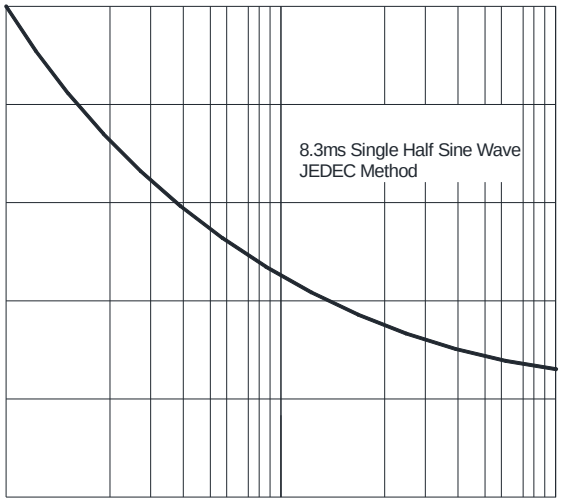
Note(1)
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

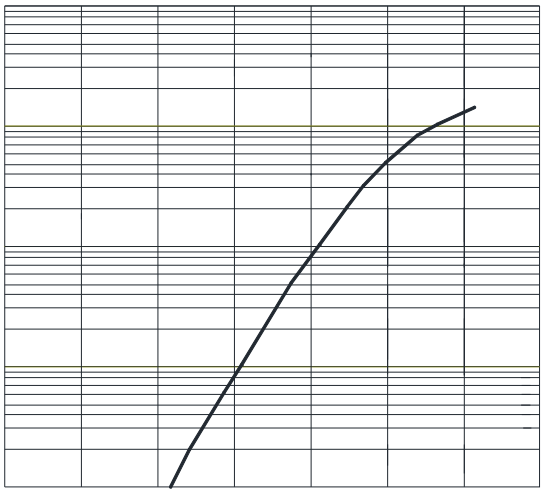
■ (Example)

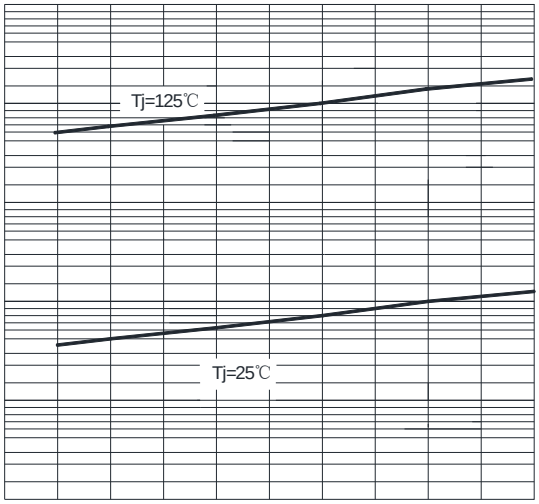
	F1	Approximate 0.261	3000	/	42000	13” reel

■ (Typical)









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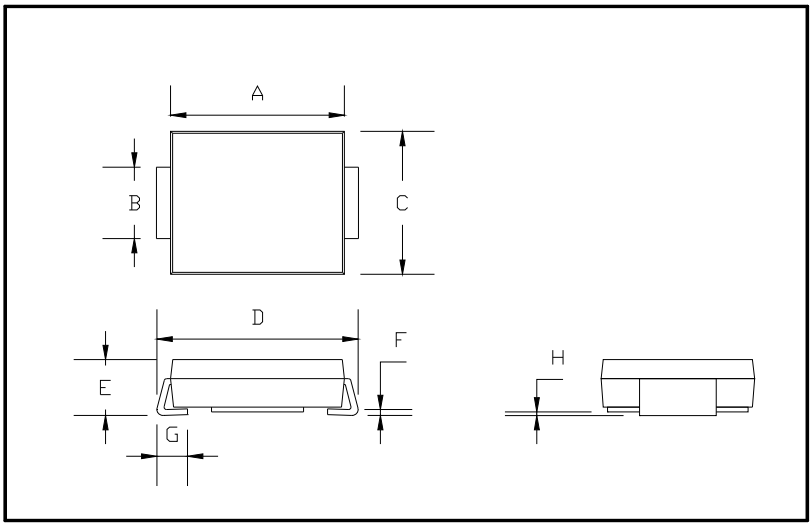
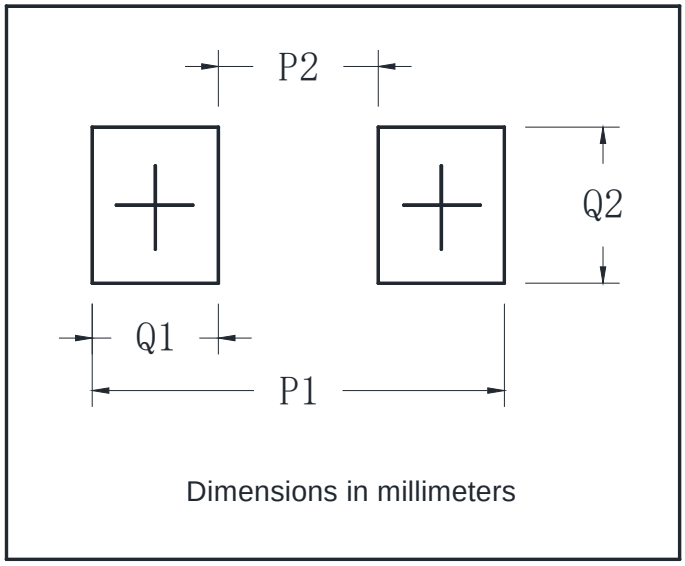


DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.05	0.20



Dim	Min
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82

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