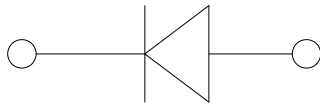


Low profile package
Ideal for automated placement
Glass passivated chip junction
High forward surge capability
Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

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



Package: 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

($T_a=25^\circ\text{C}$ 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, $T_j=25^\circ\text{C}$	I_{FSM}	A	200						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$			400						
Current squared time @1ms t 8.3ms $T_j=25^\circ\text{C}$	I^2t	A^2s	166						
Storage Temperature	T_{stg}		-55 ~ +150						
Junction Temperature	T_j		-55 ~ +150						

($T_a=25^\circ\text{C}$ Unless otherwise specified)

Maximum instantaneous forward voltage	V_F	V	$I_{FM}=10\text{A}$	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	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	55					



($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Typical Thermal resistance	R J-A(1)	/W	50						
	R J-L(1)		10						
	R J-C(1)		8						

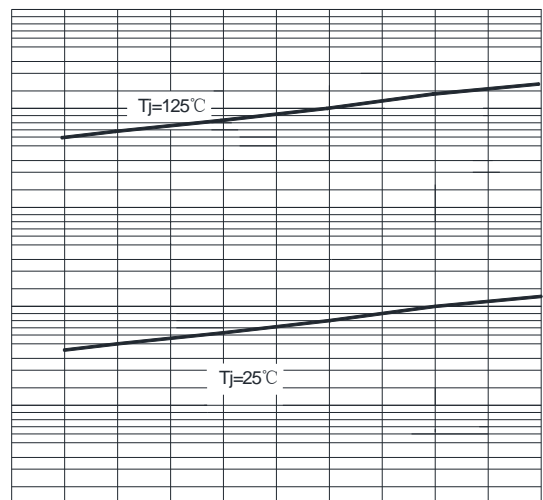
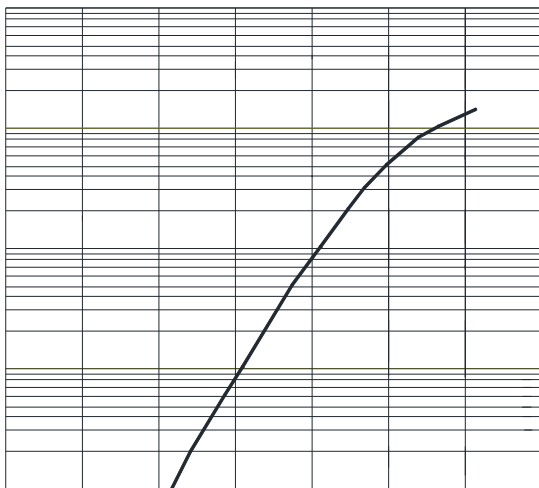
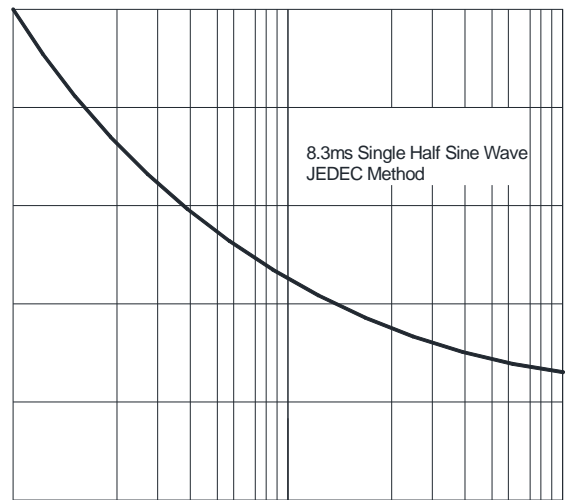
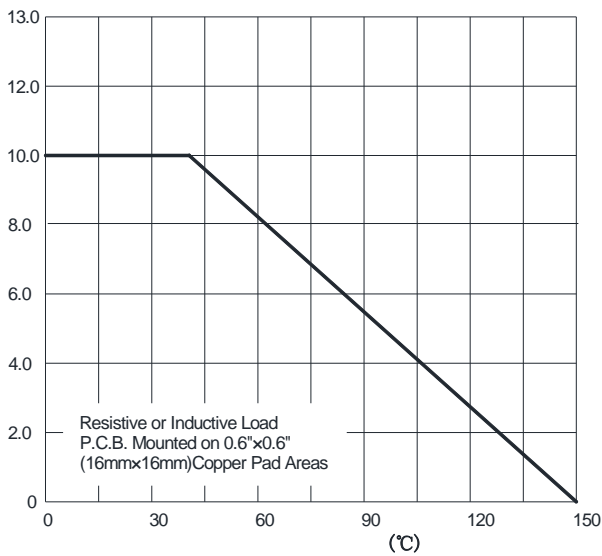
Note(1)

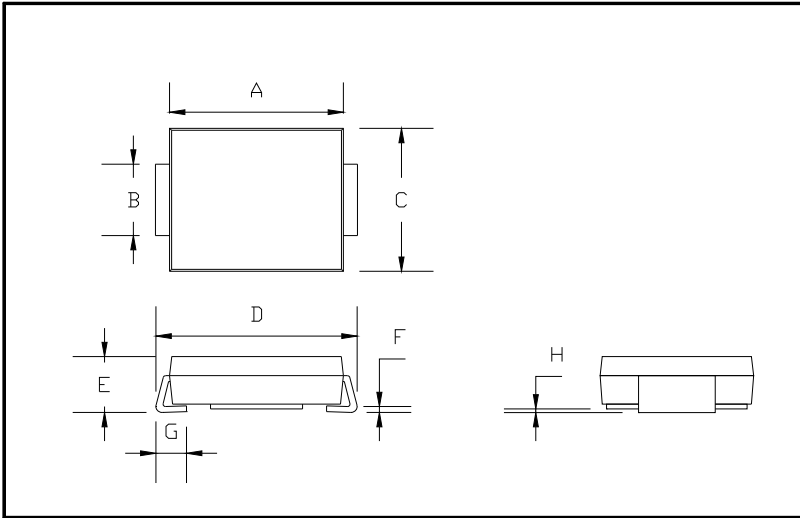
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

(Example)

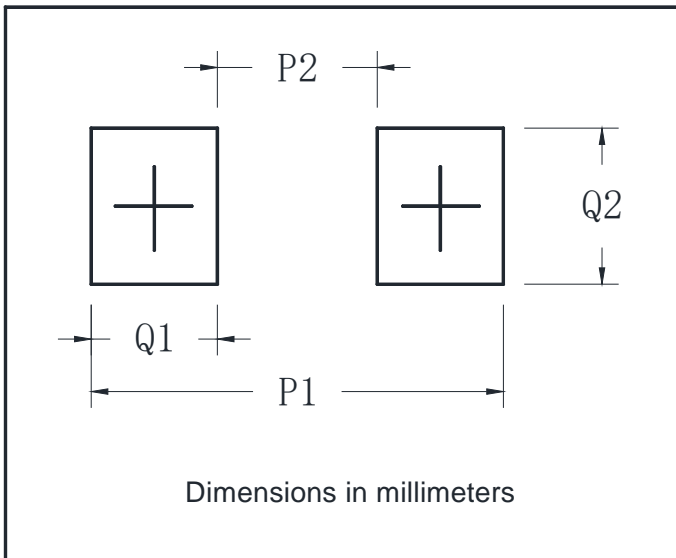
F1	Approximate 0.261	3000	/	42000	13" reel		

(Typical)





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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