





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

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

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 <sub>DC</sub>	V	50	100	200	400	600	800	1000	
Average Rectified Output Current @60Hz sine wave, Resistance load, TL (FIG.1)	Io	А	10							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		^	200							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	I <sub>FSM</sub>	FSM A	400							
Current squared time @1ms t 8.3ms Tj=25°C	l <sup>2</sup> t	A <sup>2</sup> s	166							
Storage Temperature	Tstg		-55 ~ +150							
Junction Temperature	Tj		-55 ~ <b>+</b> 150							

## (Ta=25°C Unless otherwise specified)

Maximum instantaneous forward voltage	VF	٧	V IFM=10A 1.1							
Maximum DC reverse current at	IR	μA	T <sub>j</sub> =25	5						
rated DC blocking voltage	blocking voltage		T <sub>j</sub> =125	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				55			

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(T<sub>a</sub>=25<sup>°</sup>C Unless otherwise specified)

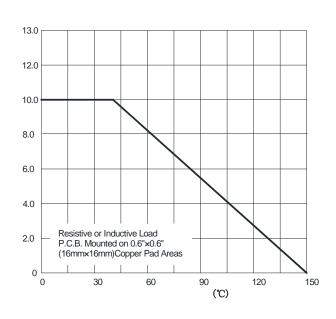
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	R J-A(1)		50							
Typical Thermal resistance	R J-L(1)	/W	10							
	R J-C(1)		8							

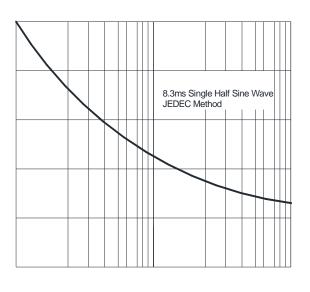
Note(1)
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

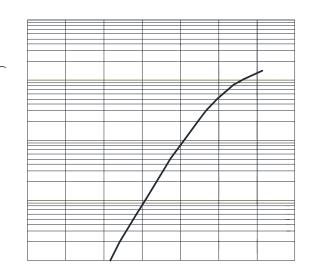
(Example)

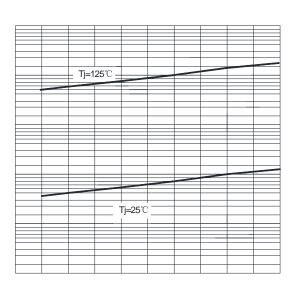
	(	-1/				
	F1	Approximate 0.261	3000	1	42000	13" reel

## (Typical)

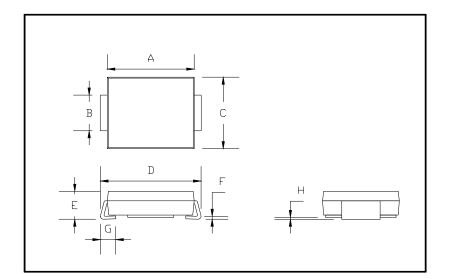




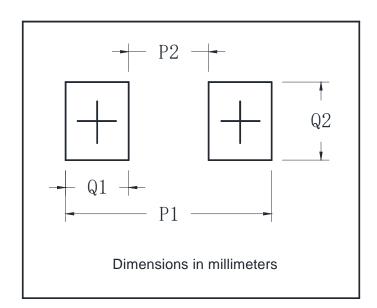








DO-214AB (SMC)					
Dim	Min	Max			
Α	6.60	7.11			
В	2.85	3.27			
С	5.59	6.22			
D	7.75	8.13			
Е	1.99	2.61			
F	0.15	0.31			
G	0.76	1.52			
Н	0.05	0.20			



Dim	Min
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82



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