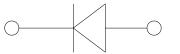
Surface Mount Fast Recovery Rectifier





Features

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

Typical Applications

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

Mechanical Data

- Package: DO-214AC (SMA) Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

■ Maximum Ratings (T_a=25[°]C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M
Device marking code			RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, Resistance load, Ta (FIG.1)	IO	A	1.0						
Surge(non-repetitive)forward current @60Hz Half-sine wave,1 cycle, Ta=25℃	IFSM	A	30						
Current squared time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode	l ² t	A ² S	3.73						
Storage temperature	T _{stg}	°C	-55~+150						
Junction temperature	Tj	°C	-55 ~ +150						
Typical Junction Capacitance measured at 1MHz and Applied on 4.0VD.C	Cj	pF	6						

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■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	1.3						
Maximum reverse recovery time	T _{RR}	ns	I _F =0.5A,I _R =1.0A, I _π =0.25A		150			250	50	00
Maximum DC reverse current at rated DC blocking voltage per	IRRM		T _a =25℃		5					
diode@ VRM=VRRM	יגגואו	μA	T _a =125℃	100						

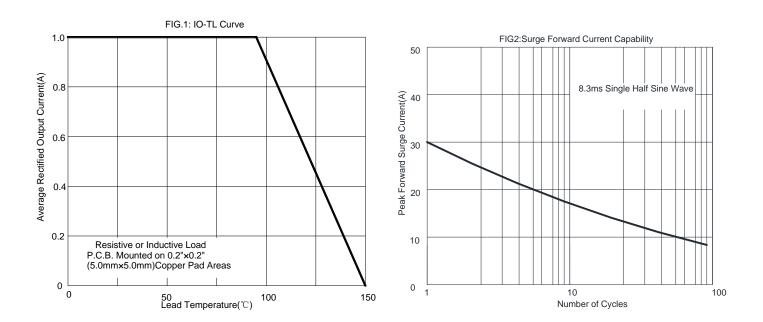
■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	
	RθJ-A		70 ¹⁾							
Thermal Resistance	RθJ-L	°C /W				35 ¹⁾				
	RθJ-C		20 ¹⁾							

Note

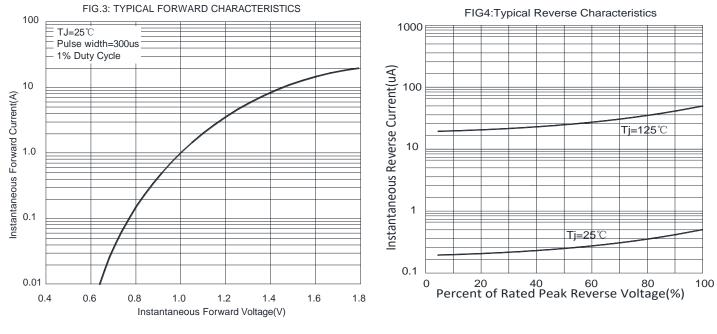
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Characteristics (Typical)



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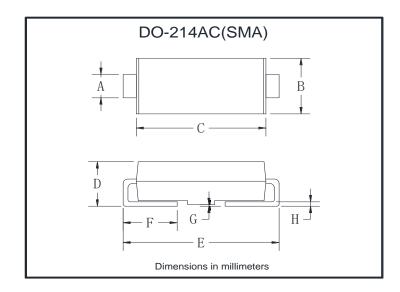




Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
RS1A-RS1M	F1	Approximate 0.059	5000	10000	80000	13" reel	
RS1A-RS1M	F2	Approximate 0.059	7500	15000	120000	13" reel	
RS1A-RS1M	F3	Approximate 0.059	7500	15000	60000	13" reel	
RS1A-RS1M	F4	Approximate 0.059	1800	7200	57600	7" reel	
RS1A-RS1M	F5	Approximate 0.059	2000	8000	64000	7" reel	
RS1A-RS1M	F6	Approximate 0.059	5000	10000	100000	13" reel	

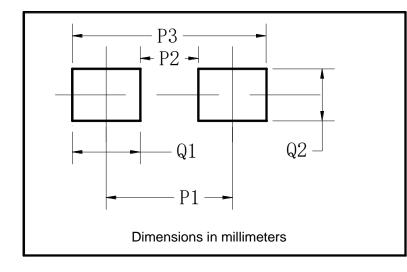
Outline Dimensions



DO-214AC(SMA)					
Dim	Min	Max			
А	1.25	1.58			
В	2.40	2.83			
С	4.25	4.75			
D	1.90	2.30			
E	4.93	5.28			
F	0.76	1.41			
G	0.08	0.20			
Н	0.15	0.31			



Suggested Pad Layout



DO-214AC(SMA)				
Dim	Millimeters			
P1	4.00			
P2	1.50			
P3	6.50			
Q1	2.50			
Q2	1.70			



RS1A THRU RS1M

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