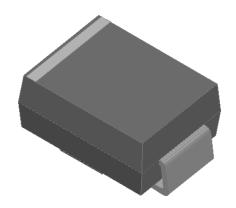
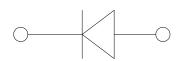


Surface Mount Super Fast Recovery Rectifier





Features

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

Typical Applications

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

Mechanical Data

 Package: DO-214AA (SMB)
 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: Cathode line denotes the cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ES2A	ES2B	ES2C	ES2D	ES2F	ES2G	ES2H	ES2J	ES2K
Device marking code			ES2A	ES2B	ES2C	ES2D	ES2F	ES2G	ES2H	ES2J	ES2K
Repetitive peak reverse voltage	VRRM	٧	50	100	150	200	300	400	500	600	800
Average rectified output current @60Hz sine wave, resistance load, T _L (Fig.1)	Ю	Α	2.0								
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Ta=25°C	IFSM	Α	50								
Storage temperature	Tstg	Ç	-55~+150								
Junction temperature	Tj	$^{\circ}$	-55~+150								

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	ES2A	ES2B	ES2C	ES2D	ES2F	ES2G	ES2H	ES2J	ES2K
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	0.95		1.3		1.7		1.85		
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A, I _n =0.25A	35								
Maximum DC reverse current at rated DC blocking voltage per			T _a =25℃	5.0								
diode @ VRM=VRRM	IRRM	μA	T _a =125℃					100				



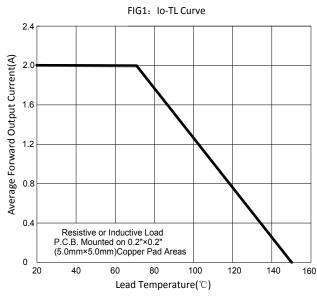
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

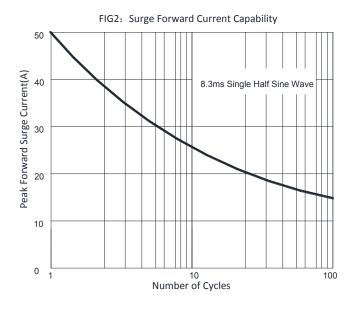
PARAMETER	SYMBOL	UNIT	ES2A	ES2B	ES2C	ES2D	ES2F	ES2G	ES2H	ES2J	ES2K
The small resistance	RθJ-A(1)	°C/W	75 ¹⁾								
Thermal resistance	RθJ-L(1)	C/VV					22 ¹⁾				

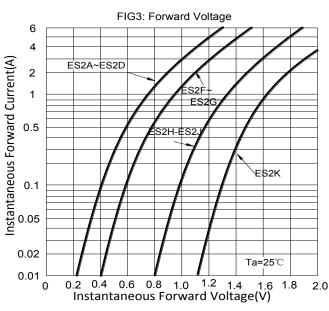
Note

(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)







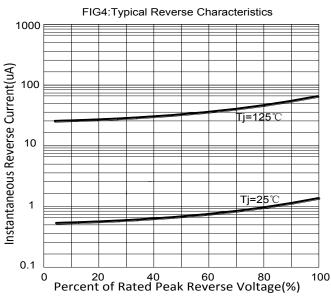
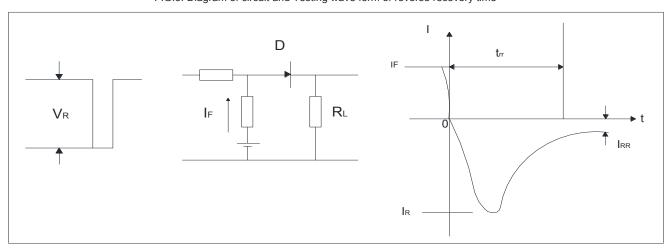




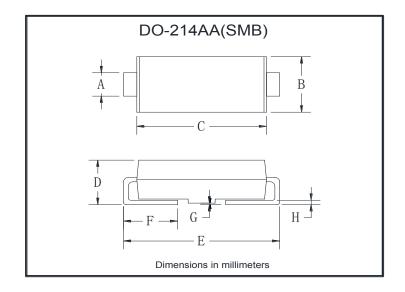
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■Ordering Information (Example)

= or worming morning (= x ampro)								
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE		
ES2A-ES2K	F1	Approximate 0.096	3000	6000	48000	13" reel		
ES2A-ES2K	F2	Approximate 0.096	750	3000	24000	7" reel		
ES2A-ES2K	F3	Approximate 0.096	500	2000	16000	7" reel		

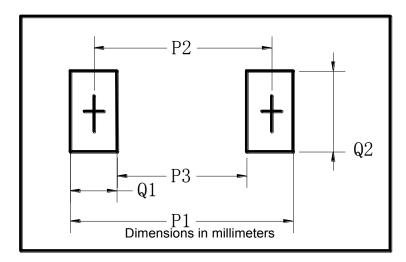
■ Outline Dimensions



DO-214AA(SMB)						
Dim	Min	Max				
Α	1.85	2.15				
В	3.30	3.94				
С	4.25	4.75				
D	1.99	2.61				
Е	5.21	5.59				
F	0.90	1.41				
G	0.10	0.20				
Н	0.15	0.31				



■ Suggested pad layout



DO-214AA(SMB)					
Dim	Millimeters				
P1	6.5				
P2	1.5				
P3	1.7				
Q1	2.5				
Q2	4.0				



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