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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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0.5A, 50V - 1000V Surface Mount Fast Recovery Rectifiers

FEATURES

- Glass passivated junction chip
- Ideal for automated placement
- High temperature metallurgically bonded construction
- Fast switching for high efficiency
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition







ROHS

MECHANICAL DATA

Case: Sub SMA

Molding compound, UL flammability classification rating 94V-0

Moisture sensitivity level: level 1, per J-STD-020 Part No. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Indicated by cathode band **Weight:** 0.019 g (approximately)

DADAMETED	OVMDC	RSF	RSF	RSF	RSF	RSF	RSF	RSF	UNIT
PARAMETER	SYMBOL	AL	BL	DL	GL	JL	KL	ML	
Marking code		FAL	FBL	FDL	FGL	FJL	FKL	FML	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	0.5					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	10				Α			
Maximum instantaneous forward voltage (Note 1) @ 0.5 A	V _F	1.3			٧				
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	5 50		μA					
Typical junction capacitance (Note 2)	CJ	4					pF		
Maximum reverse recovery time (Note 3)	t _{rr}	150 250 500		00	ns				
Typical thermal resistance	R _{θJC} R _{θJA}	32 150		°C/W					
Operating junction temperature range	TJ	- 55 to +150					°C		
Storage temperature range	T _{STG}	- 55 to +150						°C	

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Measured at 1 MHz and Applied VR=4.0 Volts.

Note 3: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

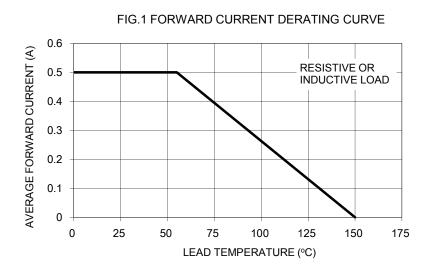


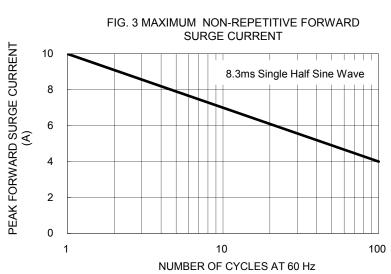
ORDERING INFORMATION					
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
	SUFFIX		SUFFIX		
		RU	G	Sub SMA	1,800 / 7" Plastic reel (8mm tape)
		RV		Sub SMA	3,000 / 7" Plastic reel (8mm tape)
		RT		Sub SMA	7,500 / 13" Paper reel (8mm tape)
		MT		Sub SMA	7,500 / 13" Plastic reel (8mm tape)
		RQ		Sub SMA	10,000 / 13" Paper reel (8mm tape)
RSFxL		MQ		Sub SMA	10,000 / 13" Plastic reel (8mm tape)
(Note 1)	Н	R3		Sub SMA	1,800 / 7" Plastic reel (12mm tape)
		RF		Sub SMA	3,000 / 7" Plastic reel (12mm tape)
		R2		Sub SMA	7,500 / 13" Paper reel (12mm tape)
		M2		Sub SMA	7,500 / 13" Plastic reel (12mm tape)
		RH		Sub SMA	10,000 / 13" Paper reel (12mm tape)
		MH		Sub SMA	10,000 / 13" Plastic reel (12mm tape)

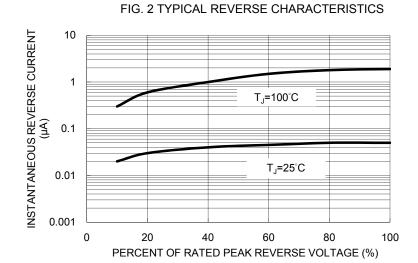
Note 1: "x" defines voltage from 50V (RSFAL) to 1000V (RSFML)

EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
RSFMLHRUG	RSFML	Н	RU	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES (T_A=25°C unless otherwise noted)







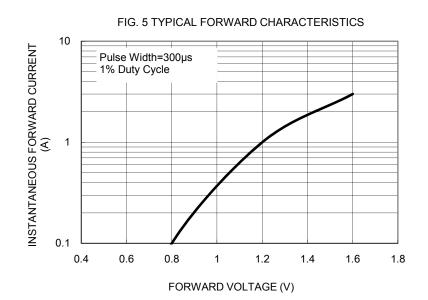




FIG. 5 TYPICAL JUNCTION CAPACITANCE

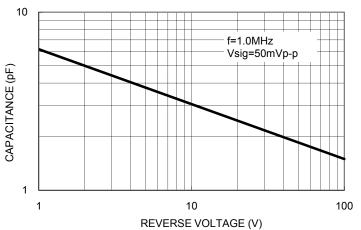
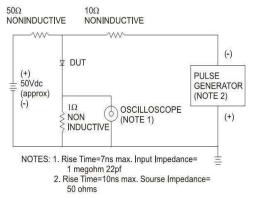
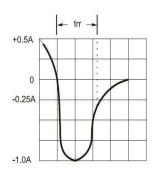


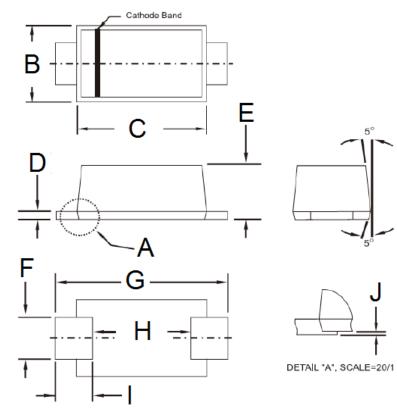
FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





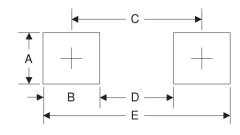
PACKAGE OUTLINE DIMENSIONS

Sub SMA



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
В	1.70	1.90	0.067	0.075	
С	2.70	2.90	0.106	0.114	
D	0.16	0.30	0.006	0.012	
E	1.23	1.43	0.048	0.056	
F	0.80	1.20	0.031	0.047	
G	3.40	3.80	0.134	0.150	
Н	2.45	2.60	0.096	0.102	
Ī	0.35	0.85	0.014	0.033	
J	0.00	0.10	0.000	0.004	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.4	0.055
В	1.2	0.047
С	3.1	0.122
D	1.9	0.075
Е	4.3	0.169

MARKING DIAGRAM



P/N = Marking Code

G = Green compound Code

YW = Date Code F = Factory Code





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