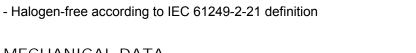




Surface Mount Fast Recovery Rectifiers

FEATURES

- Glass passivated junction chip
- Ideal for automated placement
- High temperature metallurgically bonded construction
- Fast switching for high efficiency
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC



MECHANICAL DATA

Case: Sub SMA

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Base P/N with prefix "H" on packing code - AEC-Q101 qualified Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: Indicated by cathode band Weight: 0.019 g (approximately)







Sι	ıh	SI	VΙΔ	
\mathbf{v}	12	\sim	VI/	۸

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25℃ unless otherwise noted)									
PARAMETER	SYMBOL	RSF	RSF	RSF	RSF	RSF	RSF	RSF	UNIT
FARAIVILTER	STIVIDOL	AL	BL	DL	GL	JL	KL	ML	ONT
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		V					
Maximum reverse current @ rated VR 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)	Trr	150		250	50	00	ns		
Typical thermal resistance	$R_{ hetajC}$	32 150		°C/W					
Operating junction temperature range	ating junction temperature range T _J - 55 to +150			οС					
Storage temperature range	T _{STG}	- 55 to +150					οС		

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



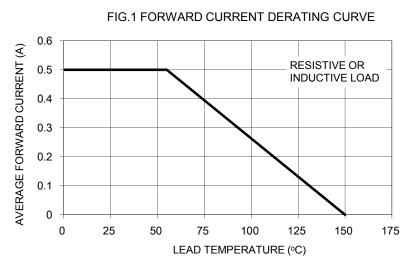
ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
	QUALIFIED		CODE		
		RU		Sub SMA	1,800 / 7" Plastic reel (8mm tape)
		RV	Suffix "G"	Sub SMA	3,000 / 7" Plastic reel (8mm tape)
		RT		Sub SMA	7,500 / 13" Paper reel (8mm tape)
		MT		Sub SMA	7,500 / 13" Plastic reel (8mm tape)
		RQ		Sub SMA	10,000 / 13" Paper reel (8mm tape)
RSFxL	Drofix "Ll"	MQ		Sub SMA	10,000 / 13" Plastic reel (8mm tape)
(Note 1)	Prefix "H"	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)

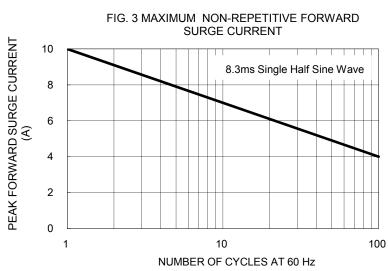
Note 1: "x" defines voltage from 50V (RSFAL) to 1000V (RSFML)

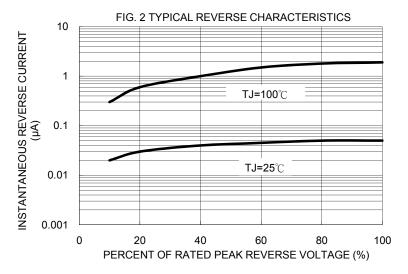
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION	
T KEI EKKED I /N	TAKT NO.	QUALIFIED	TACKING CODE	CODE		
RSFML RU	RSFML		RU			
RSFML RUG	RSFML		RU	G	Green compound	
RSFMLHRU	RSFML	Н	RU		AEC-Q101 qualified	

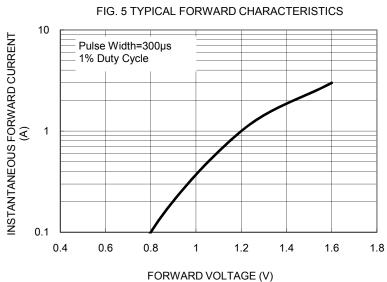
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)











10

CAPACITANCE (pF)

FIG. 5 TYPICAL JUNCTION CAPACITANCE

10 REVERSE VOLTAGE (V)

f=1.0MHz Vsig=50mVp-p

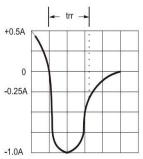
100

50Ω NONINDUCTIVE $\begin{array}{c} 10\Omega \\ \text{NONINDUCTIVE} \end{array}$ (-) DUT (+) 50Vdc (approx) (-) PULSE GENERATOR (NOTE 2)

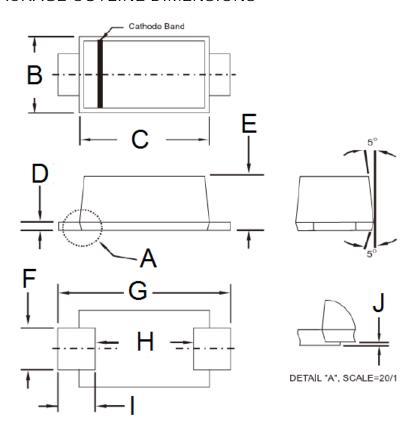
OSCILLOSCOPE (NOTE 1)

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



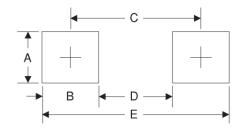


PACKAGE OUTLINE DIMENSIONS



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	
Е	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



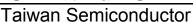
Symbol	Unit (mm)	Unit (inch)
Α	1.4	0.055
В	1.2	0.047
С	3.1	0.122
D	1.9	0.075
E	4.3	0.169

MARKING DIAGRAM



P/N = Marking Code = Green Compound G

ΥW = Date Code F = Factory Code





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