200mW, 0.37V Schottky Barrier Diode

FEATURES

- Designed for mounting on small surface
- Low Capacitance
- Low forward voltage drop
- Compliant to RoHS directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

APPLICATIONS

- Adapters
- For switching power supply
- Low stored charge
- Inverter

MECHANICAL DATA

- Case: SOD-323
- Molding compound meets UL 94 V-0 flammability rating
- Moisture sensitivity level: level 1, per J-STD-020
- Packing code with suffix "G" means green compound (halogen-free)
- Terminal: Matte Au plated leads, solderable per J-STD-002
- Meet JESD 201 class 1A whisker test
- Polarity: Indicated by cathode band
- Weight: 0.004grams (approximately)

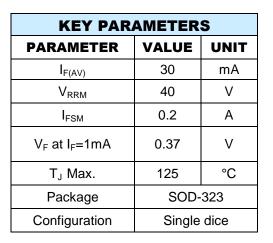
ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise noted)				
PARAMETER	SYMBOL	PART NUMBER	UNIT	
Marking code on the device		5		
Repetitive peak reverse voltage	V _{RRM}	40	V	
Forward current	I _{F(AV)}	30	mA	
Non-repetitive peak forward surge current @ t = 8.3ms	I _{FSM}	0.2	А	
Junction temperature range	TJ	-45 to +125	°C	
Storage temperature range	T _{STG}	-45 to +125	°C	

THERMAL PERFORMANCE				
PARAMETER	SYMBOL	LIMIT	UNIT	
Junction-to-ambient thermal resistance (1)	$R_{\Theta J A}$	500	°C/W	

1

Notes:

1. Valid provided that terminals are kept at ambient temperatureulse





HALOGEN







Taiwan Semiconductor

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)					
PARAMETER	CONDITIONS	SYMBOL	ТҮР	MAX	UNIT
Forward voltage per diode (1)	I _F = 1mA, T _J = 25°C	V _F		0.37	V
Reverse current @ rated V_R per diode $^{(2)}$	V _R =30V T _J = 25°C	I _R		0.5	μΑ
Junction capacitance	1 MHz, V _R =0V	CJ	2	2	ρF

Notes:

1. Pulse test with PW=0.3 ms

2. Pulse test with PW=30 ms

ORDERING INFORMATION				
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
RB751V-40 (Note 1)	RR	G	SOD-323	3K / 7" Reel

Notes:

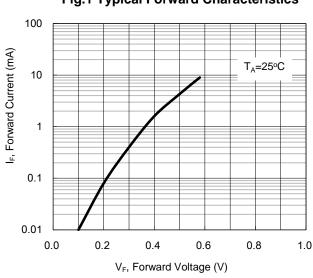
1. Whole series with green compound

EXAMPLE				
EXAMPLE P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
RB751V-40 RRG	RB751V-40	RR	G	Green compound



CHARACTERISTICS CURVES

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$



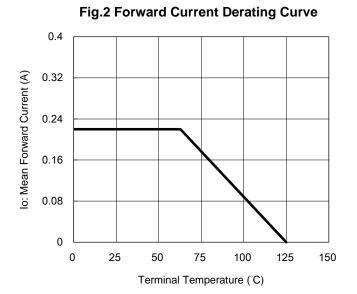


Fig.1 Typical Forward Characteristics



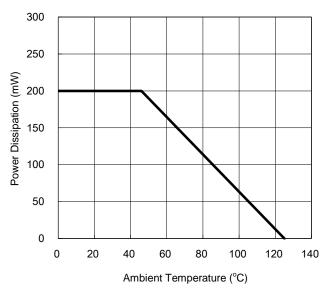
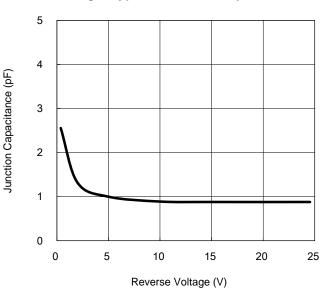
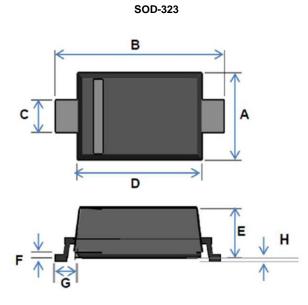


Fig.4 Typical Junction Capacitance



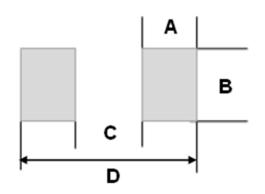


PACKAGE OUTLINE DIMENSION



DIM	Unit	(mm)	nm) Unit(inch)	
DIM.	Min	Max	Min	Max
А	1.150	1.400	0.045	0.055
В	2.300	2.700	0.091	0.106
С	0.250	0.450	0.010	0.018
D	1.600	1.800	0.063	0.071
Е	0.800	1.000	0.031	0.039
F	0.050	0.177	0.002	0.007
G	0.475 REF		0.019	REF
Н		0.100		0.004

SUGGEST PAD LAYOUT



DIM	Unit(mm)	Unit(inch)	
DIM.	Тур.	Тур.	
A	0.63	0.025	
В	0.83	0.033	
С	1.60	0.063	
D	2.86	0.113	



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