

Schottky barrier diode

LRB461WT1G

●Applications

- 1) Low-power rectification
- 2) For switching power supply

●Features

- 1) Small mold type. (SC-70)
- 2) Ultra low V_F . ($V_F=0.45V$ Typ. at 0.7A)
- 3) $I_F=0.7A$ guaranteed despite the size.
- 4) S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements;AEC-Q101 Qualified and PPAP Capable.


●Construction

Silicon epitaxial planar

- We declare that the material of product compliance with RoHS requirements.

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	25	V
DC reverse voltage	V_R	20	V
DC forward current	I_F	0.7	A
Peak forward surge current	$*I_{FSM}$	3	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40~+125	°C

* 60Hz for 1 

●Electrical characteristics (Ta = 25°C)

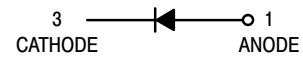
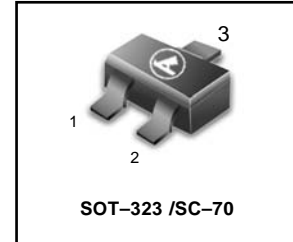
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.49	V	$I_F=0.7A$
Reverse current	I_R	-	-	200	μA	$V_R=20V$

Note) ESD sensitive product handling required.

●Device marking and ordering information

Device	Marking	Shipping
LRB461WT1G S-LRB461WT1G	3B	3000/Tape&Reel
LRB461WT1G S-LRB461WT1G	3B	10000/Tape&Reel

LRB461WT1G
S-LRB461WT1G



LRB461WT1G , S-LRB461WT1G

Electrical characteristic curves (Ta = 25°C)

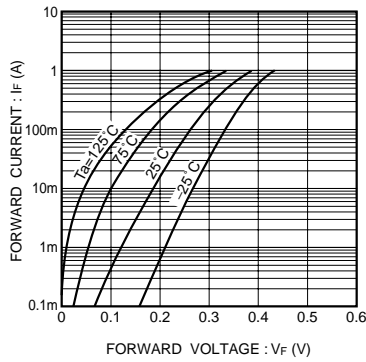


Fig.1 Forward characteristics

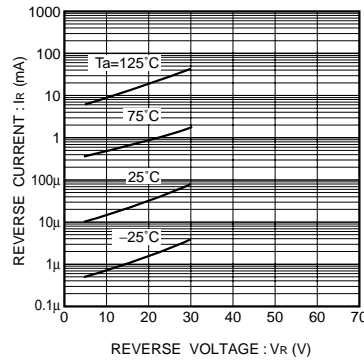


Fig.2 Reverse characteristics

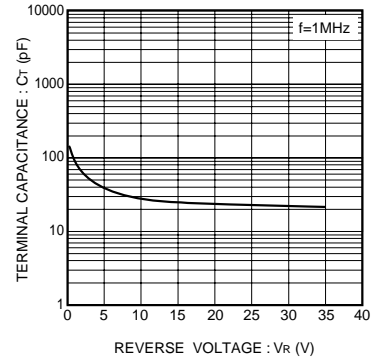


Fig.3 Capacitance between terminals characteristics

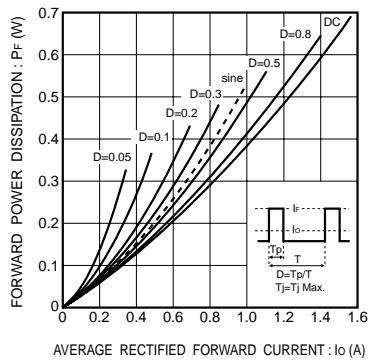


Fig.4 Forward power dissipation characteristics

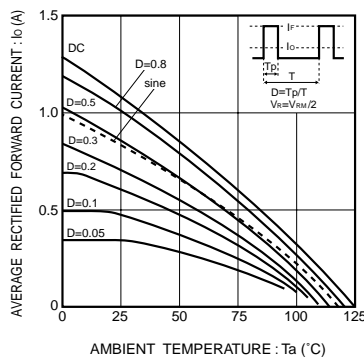
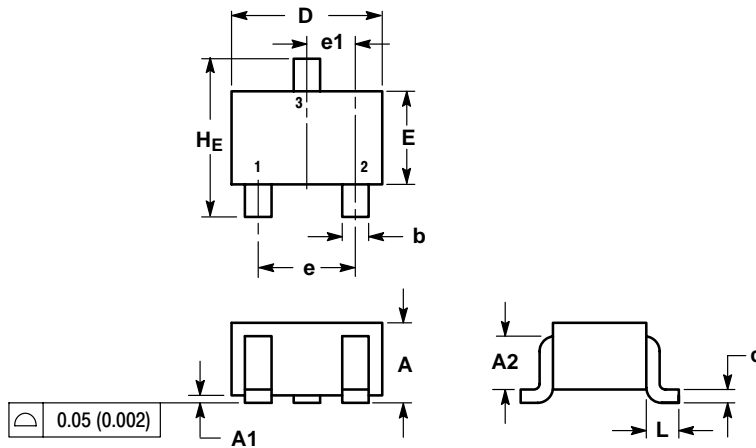


Fig.5 Derating curve (Io - Ta)

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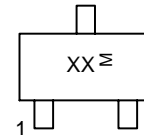
SC-70



NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.90	1.00	0.032	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A2	0.7 REF			0.028 REF		
b	0.30	0.35	0.40	0.012	0.014	0.016
c	0.10	0.18	0.25	0.004	0.007	0.010
D	1.80	2.10	2.20	0.071	0.083	0.087
E	1.15	1.24	1.35	0.045	0.049	0.053
e	1.20	1.30	1.40	0.047	0.051	0.055
e1	0.65 BSC			0.026 BSC		
L	0.425 REF			0.017 REF		
HE	2.00	2.10	2.40	0.079	0.083	0.095

GENERIC MARKING DIAGRAM



- XX = Specific Device Code
- ≅ = Date Code
- = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present.

SOLDERING FOOTPRINT*

