

5W, 15V Surface Mount Zener Diode

FEATURES

- Ideal for automated placement
- Glass passivated chip junction
- Moisture sensitivity level: level 1, per J-STD-020
- RoHS Compliant
- Halogen-free according to IEC 61249-2-21

APPLICATIONS

• For general purpose regulation and protection applications

MECHANICAL DATA

- Case : DO-214AB (SMC)
- Molding compound meets UL 94V-0 flammability rating
- Terminal : Matte tin plated leads, solderable per J-STD-002
- Meet JESD 201 class 2 whisker test
- Polarity : Indicated by cathode band
- Weight : 0.260g (approximately)

KEY PARAMETERS				
PARAMETER	VALUE	UNIT		
Vz	15	V		
P _D	5	W		
T _{J MAX}	150 °C			
Package	DO-214AB (SMC)			
Configuration	Single die			





DO-214AB (SMC)



ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise noted)				
PARAMETER	SYMBOL	VALUE	UNIT	
Steady state power dissipation at $T_L = 75^{\circ}C$	P _D	5	W	
Junction temperature	TJ	-55 to +150	°C	
Storage temperature	T _{STG}	-55 to +150	°C	

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be attached.

THERMAL PERFORMANCE				
PARAMETER	SYMBOL	ТҮР	UNIT	
Junction-to-ambient thermal resistance	R _{eja}	55	°C/W	

1SMC5352



Taiwan Semiconductor

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)								
Part number (Note 1)	0	Regulator Voltage (Note 2)	Test Current	Dynamic	Maximum Reverse Current	I _R Test Voltage	Maximum Regulator Current	Maximum Dynamic Knee Impedance
(NOLE I)	coue	$V_Z@I_Z$	Ι _Ζ	Zz	I _R	V_{R}	I _{ZM}	Z _{ZK} @1mA
		V	mA	Ω	μA	V	mA	Ω
1SMC5352	352B	15	75	2.5	1.0	11.5	315	75

Notes:

- 1. Tolerance and voltage regulation designation. The type number listed indicates a tolerance of 5%.
- 2. Zener voltage (V_Z) measurement

Nominal Zener voltage is measured with the device junction in thermal equilibrium with ambient temperature 25°C

ORDERING INFORMATION				
ORDERING CODE PACKAGE PACKING				
1SMC5352	DO-214AB (SMC)	3,000 / Tape & Reel		



CHARACTERISTICS CURVES

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

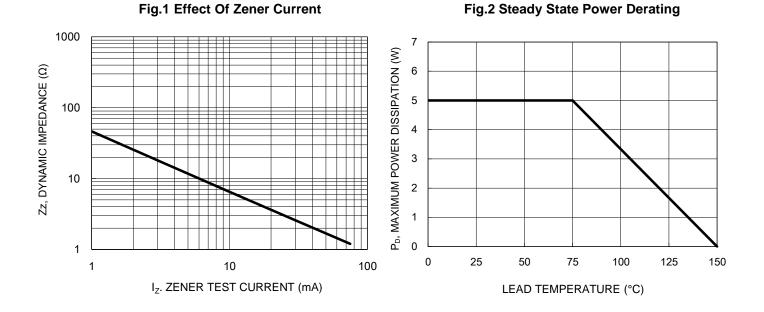
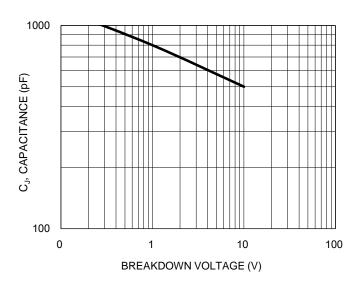
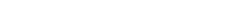


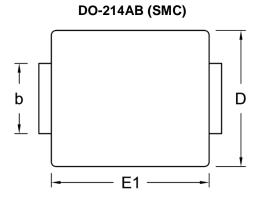
Fig.3 Typical Junction Capacitance

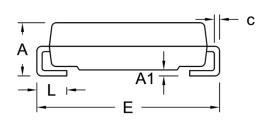




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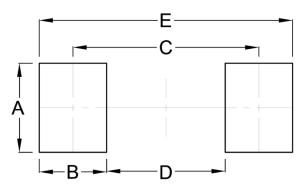
PACKAGE OUTLINE DIMENSIONS





DIM.	Unit (mm)		Unit	(inch)
	Min.	Max.	Min.	Max.
A	2.00	2.62	0.079	0.103
A1	0.10	0.20	0.004	0.008
b	2.90	3.20	0.114	0.126
с	0.15	0.31	0.006	0.012
D	5.59	6.22	0.220	0.245
E	7.75	8.13	0.305	0.320
E1	6.60	7.11	0.260	0.280
L	1.00	1.60	0.039	0.063

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	3.30	0.130
В	2.50	0.098
С	6.90	0.272
D	4.40	0.173
E	9.40	0.370

MARKING DIAGRAM



- P/N = Marking Code
- G = Green Compound

YW = Date Code

F = Factory Code



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