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SMC5365A - SMC5367A

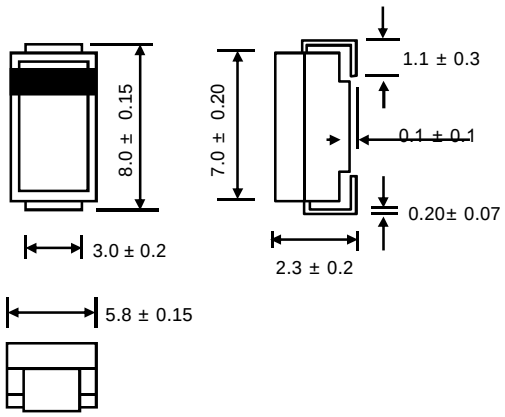
SURFACE MOUNT SILICON ZENER DIODES

V_Z : 36 - 43 Volts
P_D : 5 Watts

FEATURES :
* Complete Voltage Range 36 to 43 Volts
* High peak reverse power dissipation
* High reliability
* Low leakage current
* Pb / RoHS Free

MECHANICAL DATA :
* Case : SMC Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Lead Formed for Surface Mount
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.21 gram

SMC (DO-214AB)



Dimensions in millimeters

MAXIMUM RATINGS
Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
Power Dissipation at T_L = 25 °C	P_D	5	W
Maximum Forward Voltage at I_F = 1.0 A	V_F	1.2	V
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\Theta JA}$	90	°C/W
Thermal Resistance, Junction to Lead (Note 1)	$R_{\Theta JL}$	25	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150	°C

Note :

(1) When mounted on FR4 PC board (1 oz Cu) with recommended footprint.

ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

TYPE	Regulator Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum Zener Current	Maximum Surge Current	Maximum Voltage
	V_Z @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R @ V_R		I_{ZM}	I_{ZSM}	Regulator
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(A)	ΔV_Z
SMC5365A	36	30	11	160	1.0	0.5	25.9	132	3.3	0.65
SMC5366A	39	30	14	170	1.0	0.5	28.1	122	3.1	0.65
SMC5367A	43	30	20	190	1.0	0.5	31.0	110	2.8	0.70

Notes :

(1) Suffix " A " indicates ± 10% tolerance, suffix " B " indicates ± 5% tolerance.

(2) The surge current (I_{ZSM}) is specified as the maximum peak of a non- recurrent half-sin wave of 8.3 ms duration.

(3) Voltage regulation (V_Z) is the difference between the voltage measured at 10% and 50% of I_{ZM}