

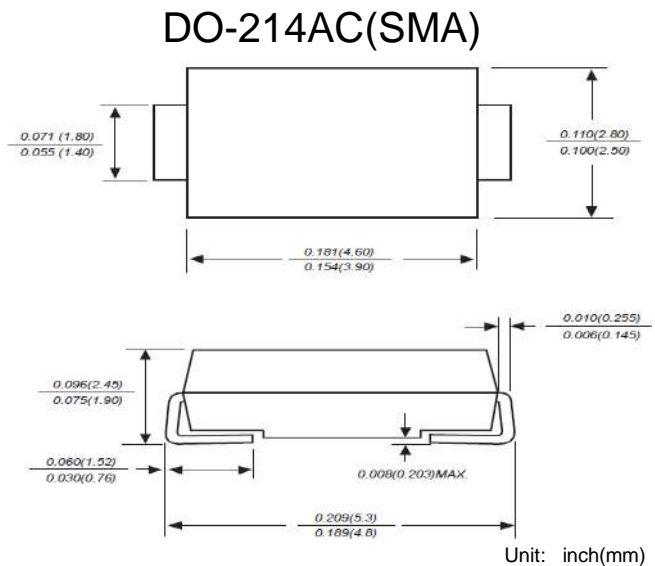
Surface Mount Silicon Zener Diodes

Features:

- Glass passivated chip
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- Low reverse leakage
- For use in stabilizing and clipping with high power rating
- RoHS compliant

Mechanical Data:

- Case: DO-214AC Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Mounting position: Any



Parameter	Symbols	Value	Unit
DC Power dissipation at $T_L = 75\text{ }^\circ\text{C}^{(1)}$	P_D	1.0	W
Maximum forward voltage at $I_F=200\text{mA}$	V_F	1.2	V
Junction temperature range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$
Storage temperature range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Note:

- (1) T_L =Lead temperature at 3/8" (9.5mm)from body

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

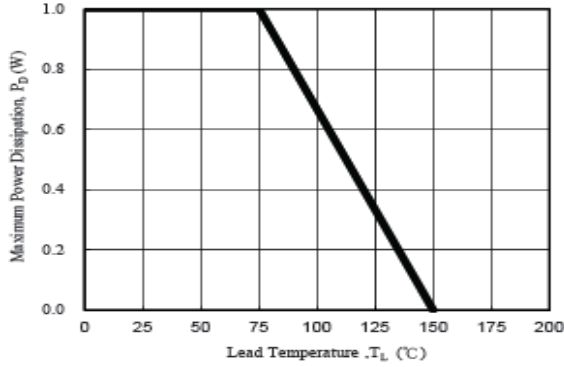


Fig. 1 - Power Temperature Derating Curve

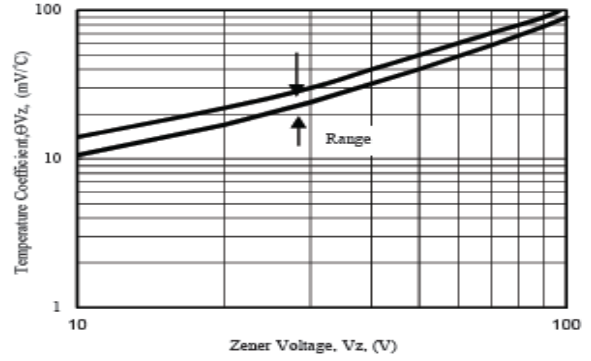


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

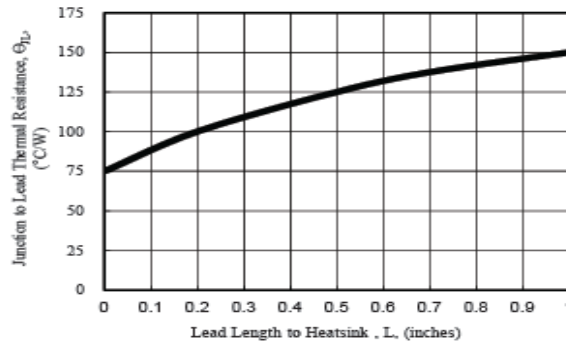


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

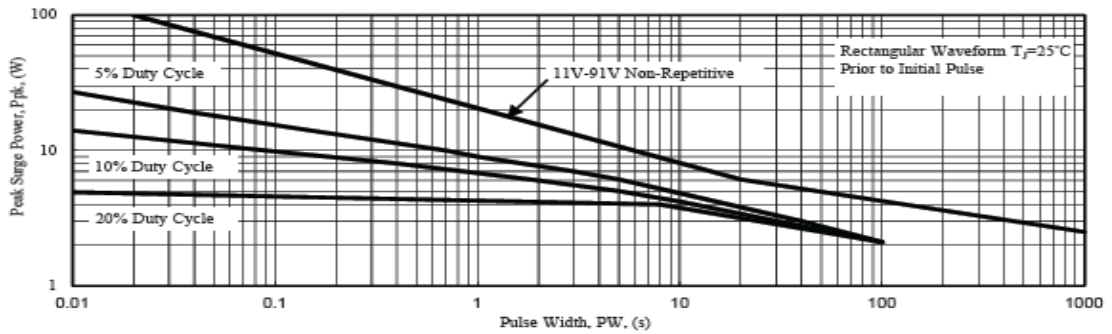


Fig. 4 - Maximum Surge Power

Part Number	Device Marking Code	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current I _{ZM} (mA)
		V _{Z AVE.} (V)	V _{Z MIN.} (V)	V _{Z MAX.} (V)		Z _{ZT MAX.} (Ω) @I _{ZT}	Z _{ZK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (uA)@V _R	V _R (V)	
SMA4732B	732B	4.7	4.61	4.79	53.0	8.0	500.0	1.00	10.0	1.0	192.0
SMA4733B	733B	5.1	5.00	5.20	49.0	7.0	550.0	1.00	10.0	1.0	177.0
SMA4734B	734B	5.6	5.49	5.71	45.0	5.0	600.0	1.00	10.0	2.0	161.0
SMA4735B	735B	6.2	6.08	6.32	41.0	2.0	700.0	1.00	10.0	3.0	146.0
SMA4736B	736B	6.8	6.66	6.94	37.0	3.5	700.0	1.00	10.0	4.0	133.0
SMA4737B	737B	7.5	7.35	7.65	34.0	4.0	700.0	0.50	10.0	5.0	121.0
SMA4738B	738B	8.2	8.04	8.36	31.0	4.5	700.0	0.50	10.0	6.0	110.0
SMA4739B	739B	9.1	8.92	9.28	28.0	5.0	700.0	0.50	10.0	7.0	100.0
SMA4740B	740B	10.0	9.80	10.20	25.0	7.0	700.0	0.25	10.0	7.6	91.0