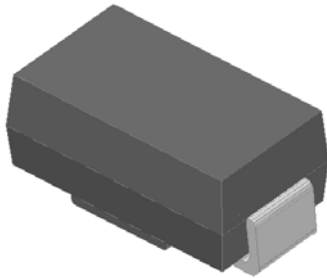


Thyristor Surge Suppressors



Features

- Low switching voltage
- Low on-state voltage
- Does not degrade surge capability after multiple surge events within limit
- Fails short circuit when surged in excess of ratings
- Low Capacitance

Typical Applications

- Protect circuit

Mechanical Data

- **Package:** DO-214AC (SMA)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Max
Storage temperature	T _{stg}	°C	-55~+150
Junction temperature	T _j	°C	-55~+150

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

Part Number	V _{drm} @I _{drm} =5μA (V)	V _s @100V/μs (V)	V _t @I _t =2.2Amps (V)	I _{drm} @V _{drm} (μA)	I _s (mA)	I _t (A)	I _h (mA)	C _o @1MHz, 2V bias (pF)
	Min	Max	Max	Max	Max	Max	Min	Typ.
P0080TA	6	25	4	5	800	2.2	50	45

■Surge Ratings.

Series	I _{pp} 2/10us (A)	I _{pp} 8/20us (A)	I _{pp} 10/160us (A)	I _{pp} 10/560us (A)	I _{pp} 10/1000us (A)	I _t sm 60Hz (A)	di/dt (A)
	Min	Min	Min	Min	Min	Min	Typ.
A	150	150	90	50	45	20	500



■ Characteristics (Typical)

FIG1:V-I Characteristics

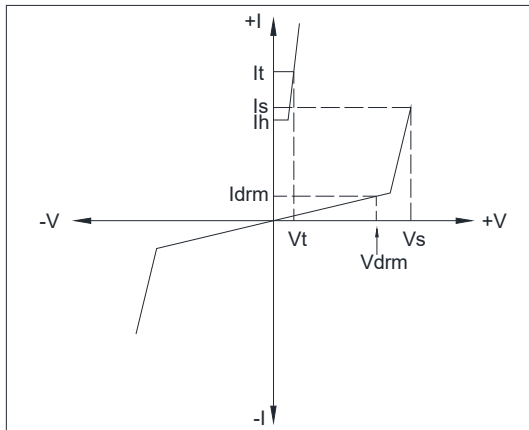


FIG2: tr*td Pulse Wave-form

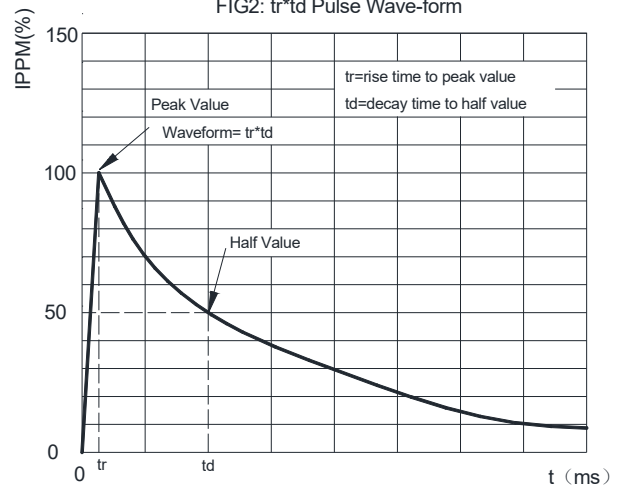


FIG3:Normalized Vs Change versus Junction Temperature

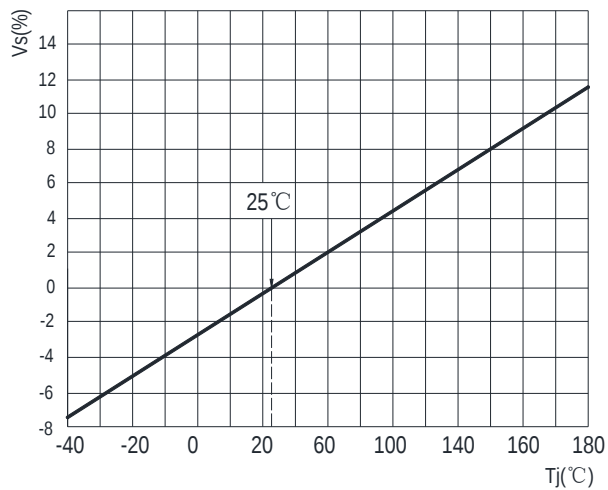
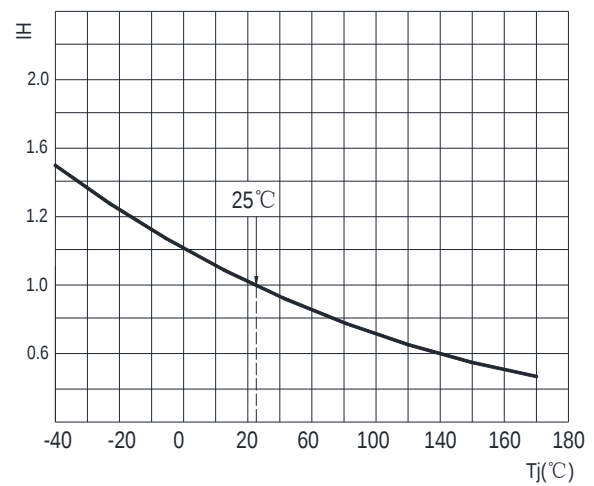


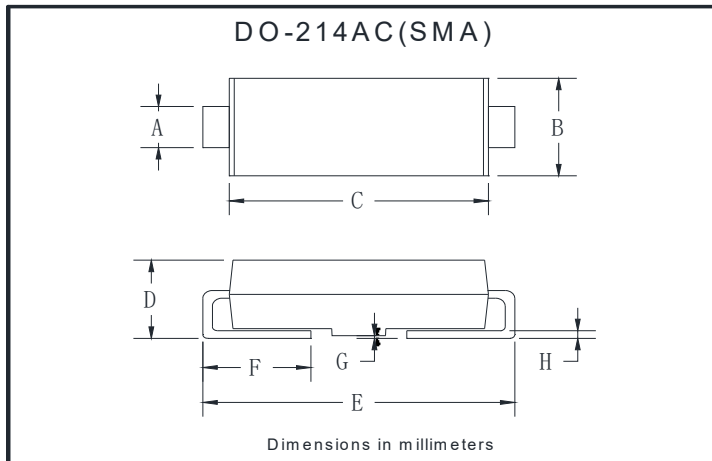
FIG4:Normalized DC Holding Current



■ Ordering Information (Example)

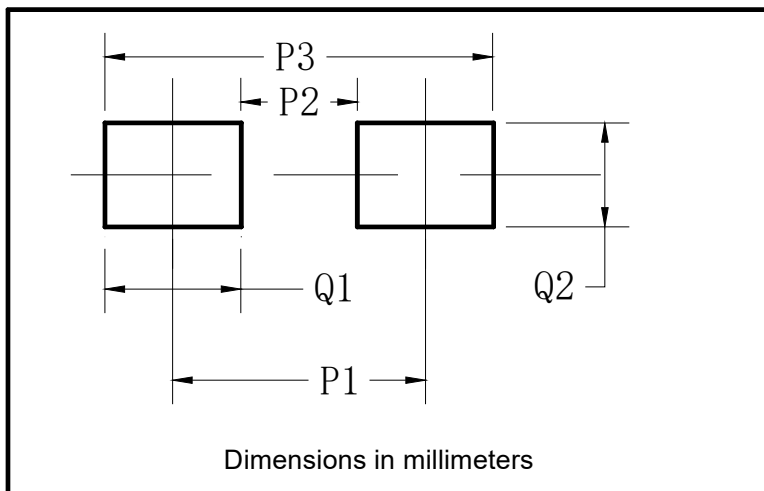
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
P0080TA	F1	Approximate 0.059	5000	/	80000	13" reel

■ Outline Dimensions



DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.00	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.08	0.20
H	0.15	0.31

■ Suggested pad layout



DO-214AC(SMA)	
Dim	Millimeters
P1	4.00
P2	1.50
P3	6.50
Q1	2.50
Q2	1.70



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