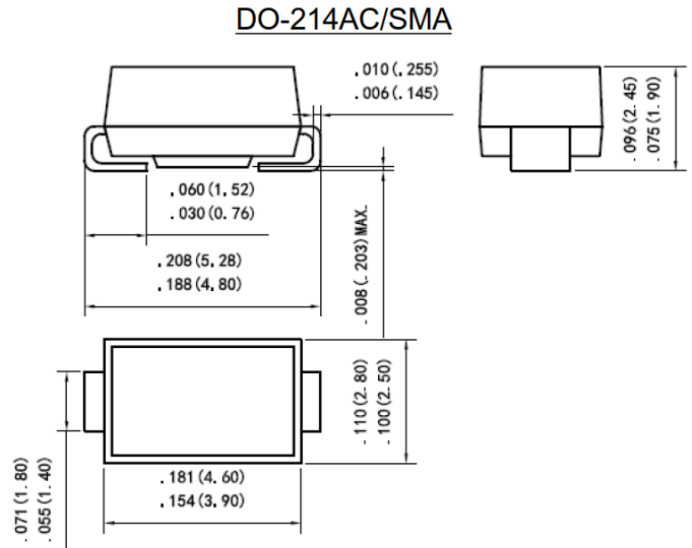


## Features

- Low reverse leakage
- High reliability
- High temperature soldering guaranteed:  
260°C/10 seconds
- Lead and body according with RoHS standard
- Have low capacitance, making them ideal for high-speed transmission equipment
- Will not fatigue
- Are non-degenerative
- Eliminate voltage overshoot caused by fast-rising transients
- Cannot be damaged by voltage

## Dimensions and Pin Configuration



Unit: inch (mm)

## Mechanical Characteristics

- Case: DO-214AC Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free
- Green compound

## Electrical Parameters

Parameter	Definition
$V_{DRM}$	Peak Off-state Voltage – maximum voltage that can be applied while maintaining off state
$V_S$	Switching Voltage – maximum voltage prior to switching to on state
$V_T$	On-state Voltage – maximum voltage measured at rated on-state current
$I_{DRM}$	Leakage Current – maximum peak off-state current measured at $V_{DRM}$
$I_S$	Switching Current – maximum current required to switch to on state
$I_T$	On-state Current – maximum rated continuous on-state current
$I_H$	Holding Current – minimum current required to maintain on state
$C_O$	Off-state Capacitance – typical capacitance measured in off state
$V_{PP}$	Peak Pulse Voltage – maximum rated peak impulse voltage
$I_{PP}$	Peak Pulse Current – maximum rated peak impulse current

### Thermal Considerations

Package	Symbol	Parameter	Value	Unit
DO-214AC SMA-W	TJ	Operating Junction Temperature	-40 to +150	°C
	TS	Storage Temperature Range	-40 to +150	°C
	RJA	Junction to Ambient on printed circuit	105	°C/W

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise specified)

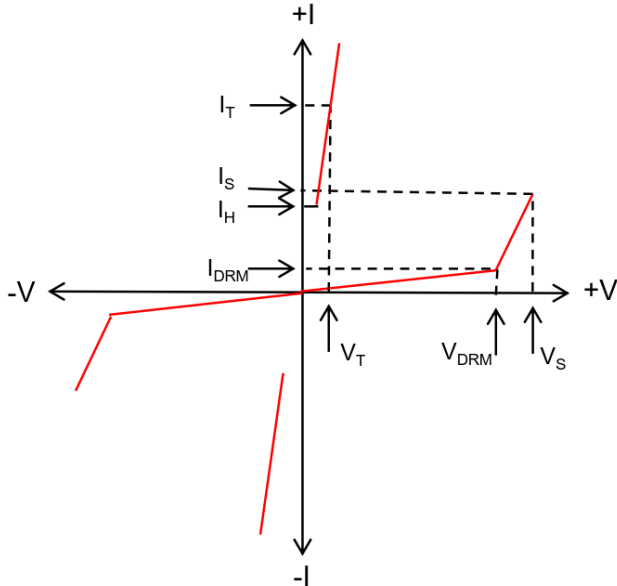
Part Number	Marking	V <sub>DRM</sub> (V)	V <sub>S</sub> (V)	V <sub>T</sub> (V)	I <sub>DRM</sub> (μA)	I <sub>S</sub> (mA)	I <sub>T</sub> (A)	I <sub>H</sub> (mA)	C <sub>O</sub> MAX (pF)	V <sub>PP</sub> 10/700us (V)	I <sub>PP</sub> 10/700us (A)
P0060TA	P006A	6	25	4.0	5.0	800	2.2	50	50	3000	75
P0080TA	P008A	6	25	4.0	5.0	800	2.2	50	50	3000	75
P0300TA	P030A	25	40	4.0	5.0	800	2.2	50	70	3000	75
P0640TA	P064A	58	77	4.0	5.0	800	2.2	150	50	3000	75
P0720TA	P072A	65	88	4.0	5.0	800	2.2	150	50	3000	75
P0900TA	P090A	75	98	4.0	5.0	800	2.2	150	45	3000	75
P1100TA	P110A	90	130	4.0	5.0	800	2.2	150	45	3000	75
P1300TA	P130A	120	160	4.0	5.0	800	2.2	150	45	3000	75
P1500TA	P150A	140	180	4.0	5.0	800	2.2	150	40	3000	75
P1800TA	P180A	170	220	4.0	5.0	800	2.2	150	40	3000	75
P2300TA	P230A	190	260	4.0	5.0	800	2.2	150	35	3000	75
P2600TA	P260A	220	300	4.0	5.0	800	2.2	150	35	3000	75
P3100TA	P310A	275	350	4.0	5.0	800	2.2	150	30	3000	75
P3500TA	P350A	320	400	4.0	5.0	800	2.2	150	30	3000	75
P4200TA	P420A	390	500	4.0	5.0	800	2.2	150	30	3000	75

Note:

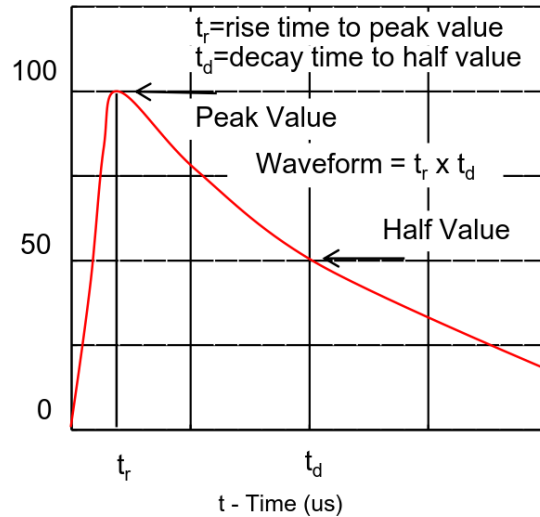
- 1) All measurements are made at an ambient temperature of 25°C. I<sub>PP</sub> applies to -40°C through +85°C temperature range.
- 2) Off-state capacitance (C<sub>O</sub>) is measured at 1 MHz with a 2 V bias and is typical value.

**Characteristics Curves**

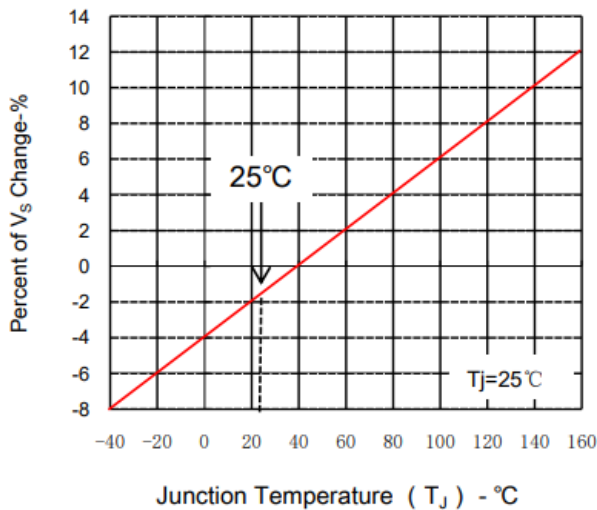
**Figure 1. V-I Characteristics**



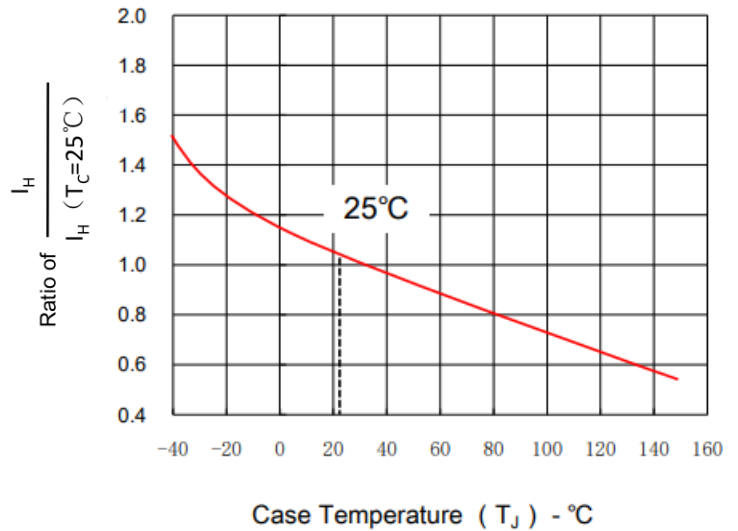
**Figure 2.  $t_r \times t_d$  Pulse Wave-form**



**Figure 3. Normalized  $V_S$  Change versus Junction Temperature**



**Figure 4. Normalized DC Holding Current versus Case Temperature**



**Contact Information**

Applied Power Microelectronics Inc.  
 Website: <http://www.appliedpowermicro.com>  
 Email: [sales@appliedpowermicro.com](mailto:sales@appliedpowermicro.com)  
 Phone: +86 (0519) 8399 3606

Applied Power Microelectronics Inc. (APM) reserves the right to make changes to the product specification and data in this document without notice. APM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does APM assume any liability arising from the application or use of any products or circuits, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.