

Features

- Bi-directional crowbar transient voltage protection
- High surge capability
- ♦ High off-state impedance
- Low leakage current
- ♦ Low on-state voltage
- ◆ Short-circuit failure mode



DO-214AC(SMA)

Main Application

WPMtek's thyristor surge protector devices are designed to help protect sensitive telecommunication equipment from the hazards caused by lighning ,power contact,and power induction. These devices enable equipment to comply with various regulatory requirements including GR 1089,ITU K. 20,K.21and K.45,IEC 60950,UL 60950,and TIA-968-A(formerly known as FCC Part 68).

Typical application including:

- Central office switching equipment. Analog and digital linecards(xDSL,T1/E1,ISDN.....)
- CustomerPremisesEquipment(CPE)suchasphones,faxmachines,modems,POSterminals,
 PBX systems and caller ID adjunct boxes.
- Primary protection modules including Main Distribution Frames(MDF), building entrance equipment and station protection modules.
- Access network equipment such as remote terminals, line repeaters, multiplexers, cross-connects, WANequipment, Network Interface Devices (NID).
- Data lines and security systems.
- CATV line amplifiers and power inserters.
- Sprinkler systems.

Electrcal Parameters (Tamb=25℃)

Part Number	VDRM	IDRM	V во	Іво	V T	lτ	Co	lн
	Max.	Max.	Max.	Max.	Max.	Max.	Тур.	Min.
	V	uA	v	mA	v	A	pF	mA
WP61065AB	6.5	5	25	800	4	2.2	45	25

Eletrical Characteristics

VDRM	Stand-off voltage,is measured at IDRM	lн	Holding current.
Vво	Breakover voltage,is measured at 100V/µs.	Іво	Breadover current.
Со	Off-state capacitance ismeasured in VDC=2V@1MHz.	lt .	ON-state current

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Electrical Characteristics Curves

Figure 1 V-I Characteristics

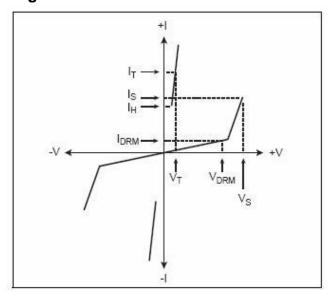


Figure 3 Normalized V_S Change versus Junction Temperature

Figure 2 tr x td Pulse Wave-form

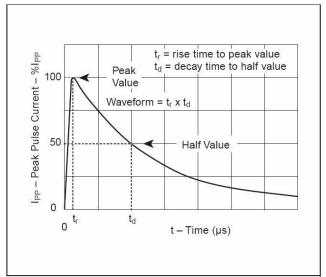
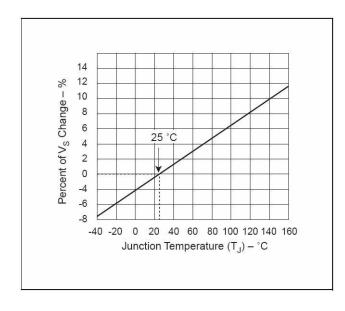
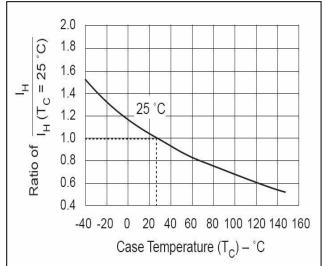


Figure 4 Normalized DC Holding Current



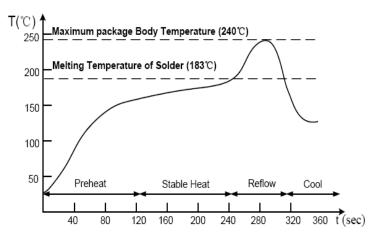


Thermal Considerations

Package DO-214AC/SMA	Symbol	Parameter	Value	Unit
	TJ	Operating Junction Temperature	-40 to +150	${\mathbb C}$
	Ts	Storage Temperature Range	-40 to +150	C
	Reja	Junction to Ambient on printed circuit	90	°C/W



Solder Reflow Recommendations

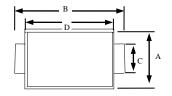


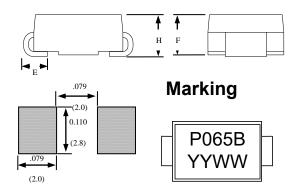
- Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- ●The device can be exposed to a maximum temperature of 265°C for 10 seconds.
- Devices can be cleaned using standard industry methods and solvents.

Notes: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Product Dimensions

Dime-	Inc	hes	Millimeters		
nsion	Min	Max	Min	Max	
A	0.098	0.114	2.50	2.90	
В	0.188	0.208	4.80	5.28	
С	0.055	0.062	1.40	1.60	
D	0.157	0.181	4.00	4.60	
E	0.030	0.060	0.76	1.52	
F	0.078	0.096	2.00	2.44	
Н	0.080	0.104	2.051	2.643	





Summary of Packing Options

P065B = Device Marking Code YYWW = Date Code

Package Type	Description	Packing Quantity	Industry Standard
DO-214AC(SMA)			_1
	Embossed Carrier Reel Pack	5000PCS	EIA-481-D

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