

Description

rightKing

DO-214AA Thyristor solid state protection thyristor protect telecommunications equipment such as modems, line cards, fax machines, and other CPE.

AG-BK is used to enable equipment to meet various regulatory requirements including GR 1089, ITU K.20, K.21 and K.45, IEC 60950, UL 60950, and TIA-968(formerly known as FCC Part 68).

Features

Compared to surge suppression using other technologies, AG-BK devices offer absolute surge protection regardless of the surge current available and the rate of applied voltage (dv/dt). AG-BK devices:

- Cannot be damaged by voltage
- Eliminate hysteresis and heat dissipation typically found with clamping devices
- Eliminate voltage overshoot caused by fast-rising transients
- Are non-degenerative
- Will not fatigue
- Have low capacitance, making them ideal for high-speed transmission equipment
- Meets MSL level 1, per J-STD-020

Parameter	Definition
V _{DRM}	Peak Off-state Voltage – maximum voltage that can be applied while maintaining off state
Vs	Switching Voltage – maximum voltage prior to switching to on state
VT	On-state Voltage – maximum voltage measured at rated on-state current
Idrm	Leakage Current – maximum peak off-state current measured at VDRM
ls	Switching Current – maximum current required to switch to on state
IT	On-state Current – maximum rated continuous on-state current
Ι _Η	Holding Current –typical current required to maintain on state
Co	Off-state Capacitance – typical capacitance measured in off state
V _{PP}	Peak Pulse Voltage – maximum rated peak impulse voltage
IPP	Peak Pulse Current – maximum rated peak impulse current
Vc	Clamping Voltage – maximum voltage measured at VPP

Electrical Parameters





Electrical Characteristics

Part Number	V _{DRM} (V)	Vs (V)	V _T (V)	I _{DRM} (μΑ)	I _S (mA)	I _T (A)	I _H (mA)	C _O (pF)	V _{PP} 10/700µs (V)	Ι _{ΡΡ} 10/1000μs (A)	V _C @ V _{PP} (V)	Marking
AG-BK	6	25	4	5	800	2.2	50	125	6000	90	25	AG

Notes:

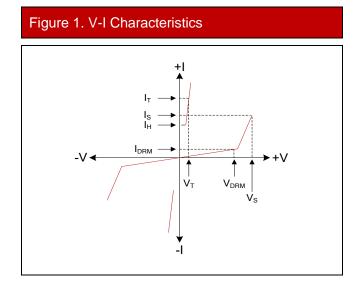
• All measurements are made at an ambient temperature of 25 °C. IPP applies to -40 °C through +85 °C temperature range.

• Off-state capacitance(Co) is measured at 1 MHz with a 2V bias and is typical value.

Thermal Considerations

Package DO-214AA/SMB	Symbol	Parameter	Value	Unit
	TJ	Operating Junction Temperature	-40 to +125	°C
	Ts	Storage Temperature Range	-40 to +150	°C
	$R_{\theta JA}$	Junction to Ambient on printed circuit	90	°C/W

Characteristics Curves





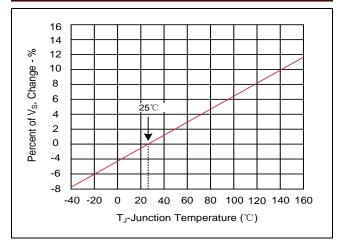


Figure 2. tr × td Pulse Wave-form

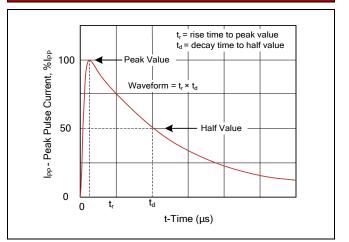
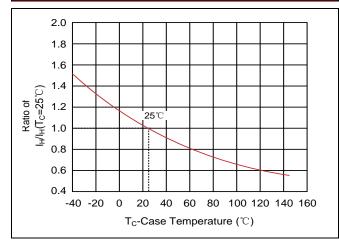
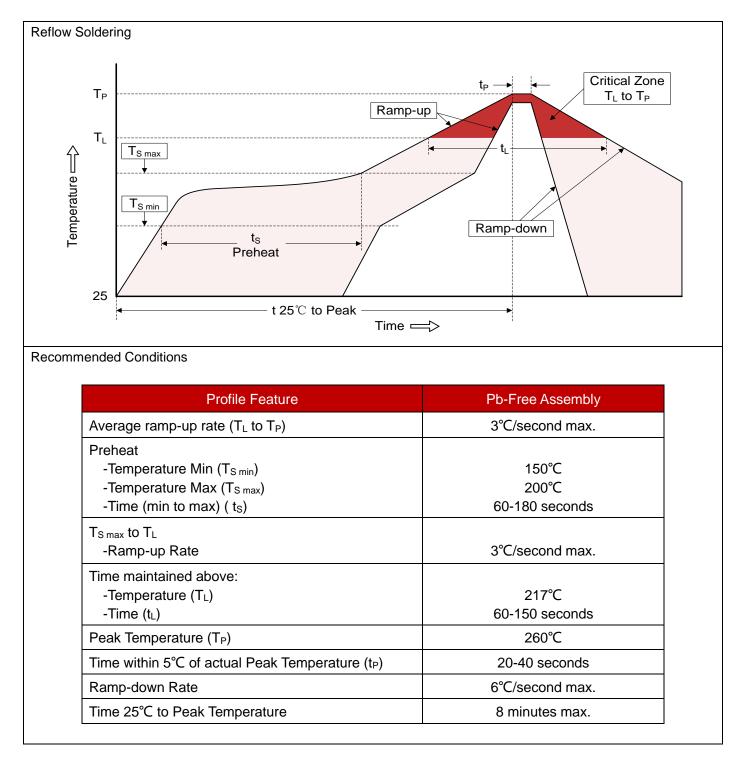


Figure 4. Normalized DC Holding Current versus Case Temperature

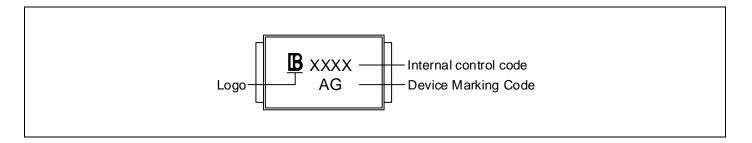




Recommended Soldering Conditions

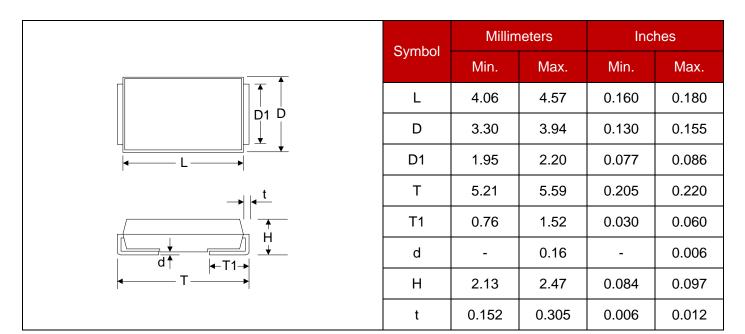


Marking Code

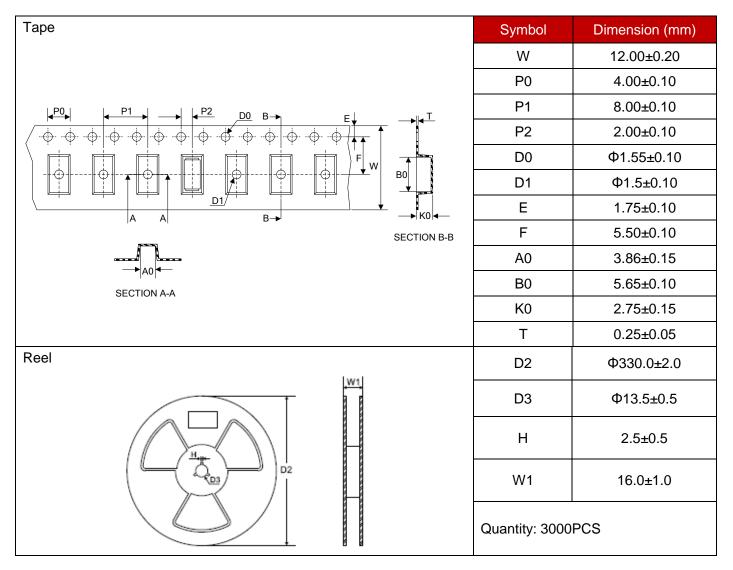




Dimensions (SMB/DO-214AA)



Packaging



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