

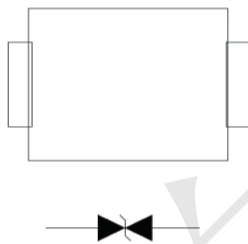
## Features

- Glass passivated chip
- 600 W peak pulse power capability with a 10/1000 us waveform, repetitive rate (duty cycle):0.01 %
- Excellent clamping capability
- Low reverse leakage
- Very fast response time
- Lead and body according with RoHS standard
- IEC 61000-4-2(ESD)  $\pm 30KV$ (air)  
 $\pm 30KV$ (contact)

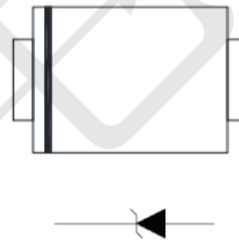
## Mechanical Data

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

BI- directional



UNI-directional



## Maximum Ratings and Characteristics

Ratings at 25° ambient temperature unless otherwise specified

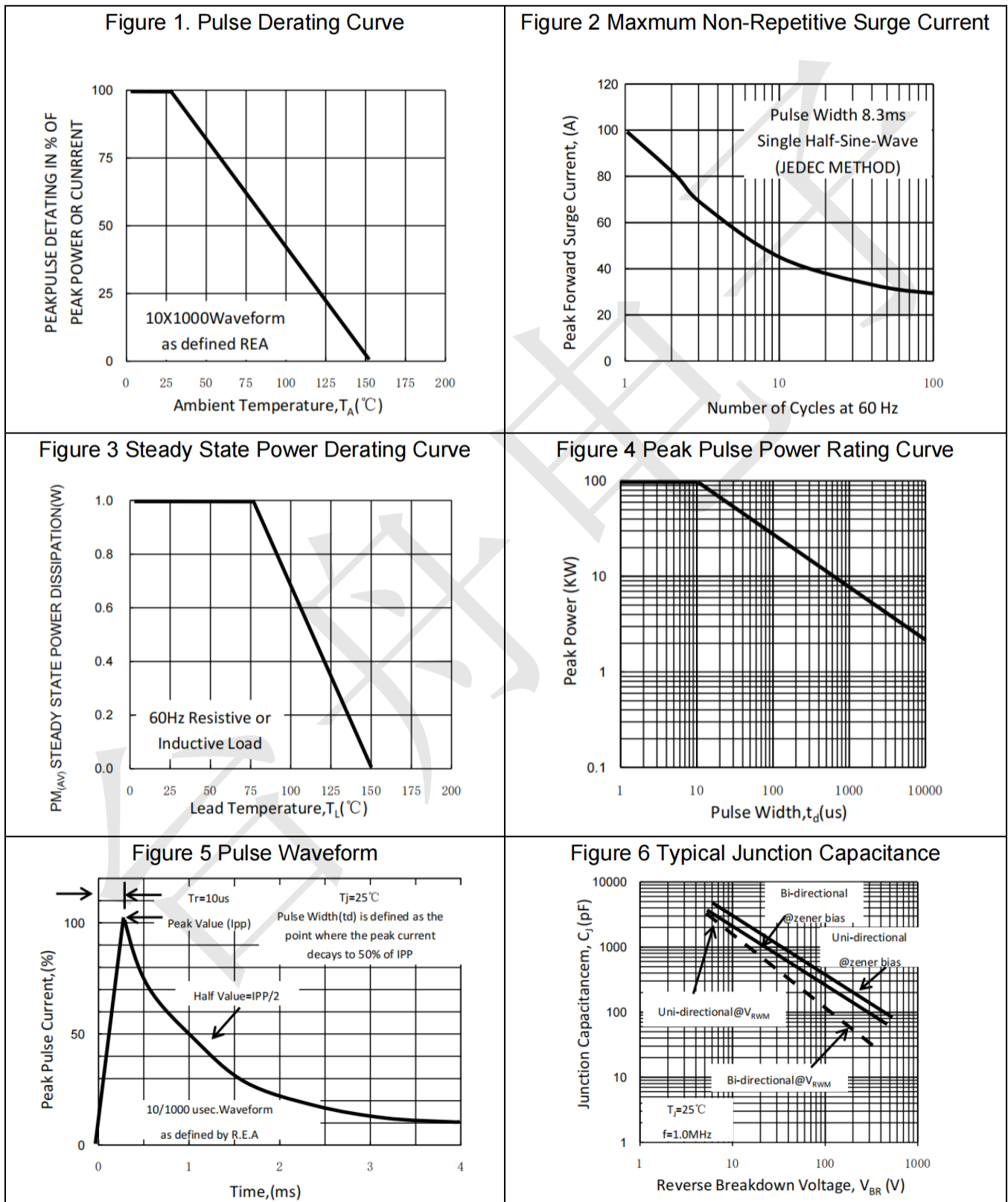
Rating	Symbol	Value	Units
Peak pulse power dissipation at 10/1000us waveform (Note1)	$P_{PP}$	600	W
Peak pulse current of at 10/1000us waveform (Note1)	$I_{PP}$	75	A
Power dissipation on infinite heatsink at $T_L = 75\text{ }^\circ\text{C}$	$P_D$	5.0	W
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Note2)	$I_{FSM}$	100	A
Maximum instantaneous forward voltage at 10 A for unidirectional only	$V_F$	3.5/5.0	V
Operating junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	$^\circ\text{C}$

Notes :

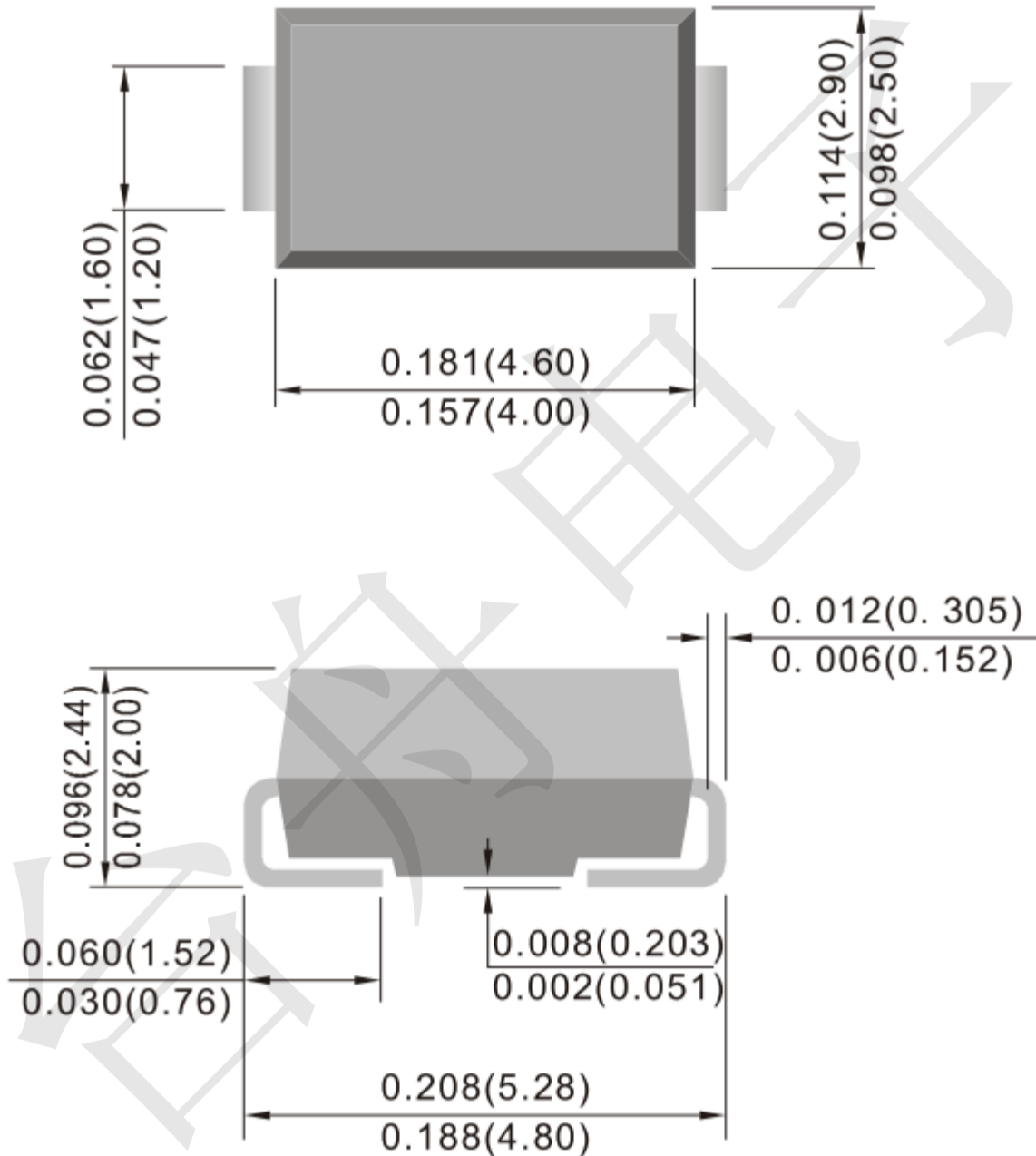
1. Non-repetitive current pulse, per Fig.5 and derated above  $T_A=25\text{ }^\circ\text{C}$  per Fig.1.
2. 8.3ms single half sine-wave, or equivalent square wave, duty cycle=4 pulses per minutes maximum.

Part Number	Part Number	Reverse Stand off Voltage VR	Breakdown Voltage VBR (Volts) @ IT		Test Current IT (mA)	Maximum Clamping Voltage VC @ Ipp (V)	Maximum Peak Pulse Current Ipp (A)	Maximum Reverse Leakage IR @ VR (μA)
			MIN	MAX				
UNI	BI	(V)						
SMBJ3.3A	SMBJ3.3CA	3.3	5.0	6.5	10	8.0	75.0	600

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



Dimension (SMB/DO-214AA)



Unit : inch(mm)