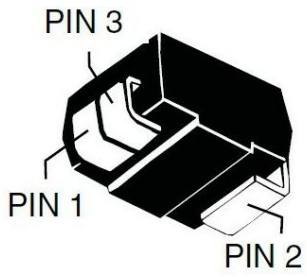
Features

- Bi-directional
- Excellent xapability of absorbing transient surge
- Quick response to surge voltage (ns level)
- Eliminates overvoltage caused by fast rising transients
- Moisture sensitivity level:level 1
- Non degenerative
- Weight 96mg



SMB-3

Electrcal Characteristics (Tamb=25℃)

Part Number	IDRM@VDRM		VS@IS		VT@IT		`IH	CO	
	MAX.	Pin1,3-2	Pin1,3-2		Max.		Min.	Min.	Max.
	UA	V	V	mA	V	A	mA	pF	pF
P0640C2	5	58	77	800	4	2.2	120	40	200

General Notes:

- All measurements are made at an ambient temperature of 25℃. Ipp applies to -40℃ through +85℃ temperature range.
- Special voltage(VBO and VDRM) and holding current(IH) requirements are available up on request.
- Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias and is typical value.

Surge Ratings

Series	I_{PP} 2x10 µs Amps	I_{PP} 8x20 µs Amps	I_{PP} 10x160 µs Amps	I_{PP} 10x560 µs	I_{PP} 10x700 µs	I_{PP} 10x1000 µs Amps	I_{TSM} 60 Hz Amps	di/dt Amps/µs
				Amps	KV			
P0640C2	500	400	200	150	6	100	50	500

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Electrical Parameters(Tamb=25℃)

Symbol	Parameter	Symbol	Parameter
V_{DRM}	Stand-off voltage, is measured at I_{DRM}	I_H	Holding current
I_{DRM}	Leakage current,is measured at V_{DRM}	I_T	ON-state current
V_{BO}	Breakover voltage, is measured at 100V/μs	V_T	On-state voltage
I_{BO}	Breadover current	C_O	Off-state capacitance ismeasured in V_{DC}=2V@1MHZ

Electrical Characteristics Curves

Figure1 V-I Characteristics

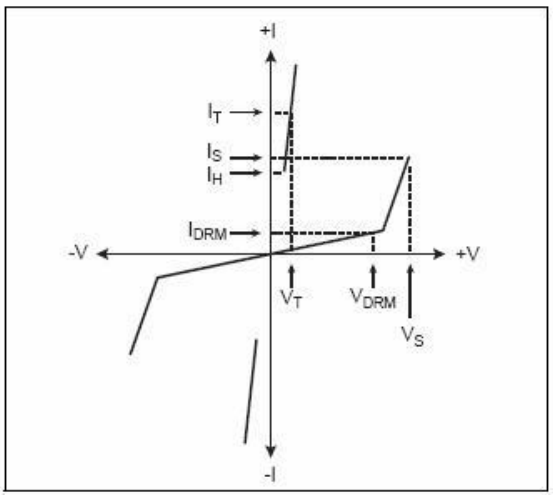


Figure2 tr x td Pulse Wave-form

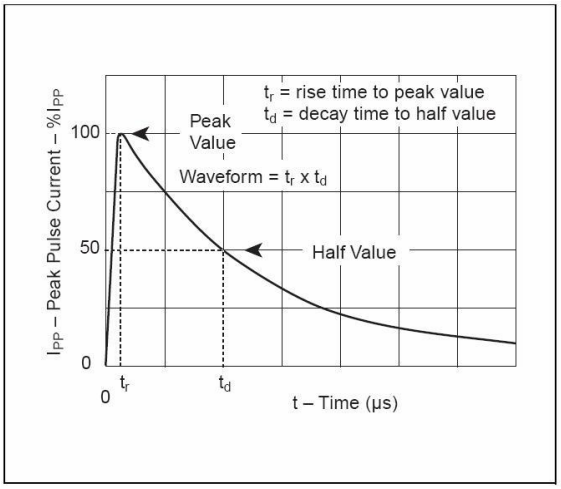
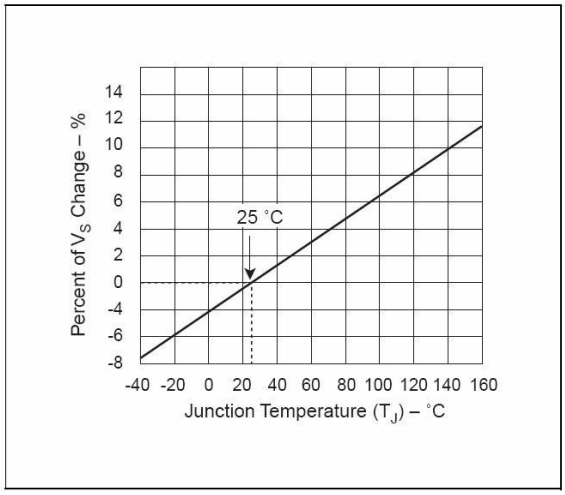
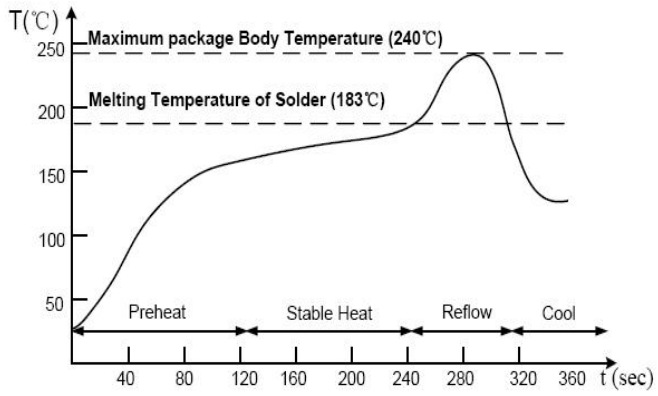


Figure 3 Normalized V_S Change versus Current



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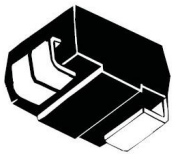
Solder Reflow Recommendations



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

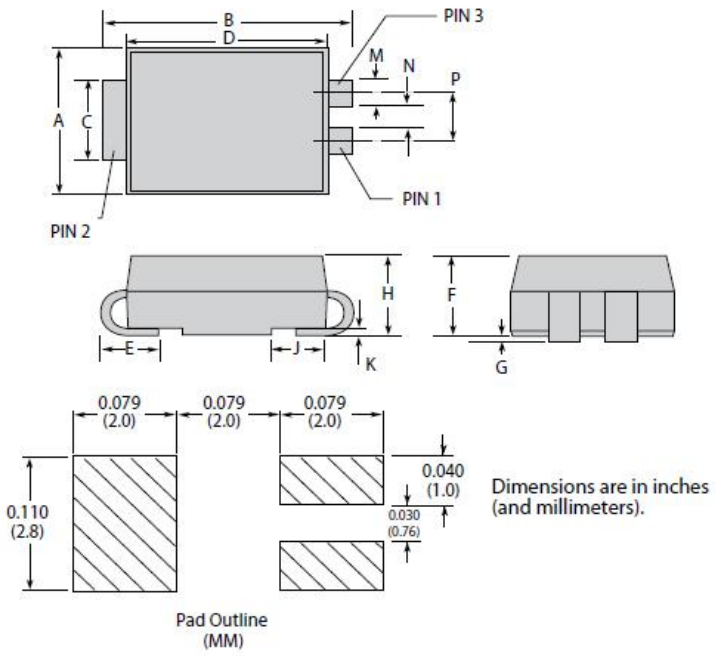
Notes: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Thermal Considerations

Package SMB-3	Symbol	Parameter	Value	Unit
	T_J	Operating Junction Temperature	-40 to +150	℃
	T_S	Storage Temperature Range	-40 to +150	℃
	$R_{\theta JA}$	Junction to Ambient on printed circuit	90	℃/W

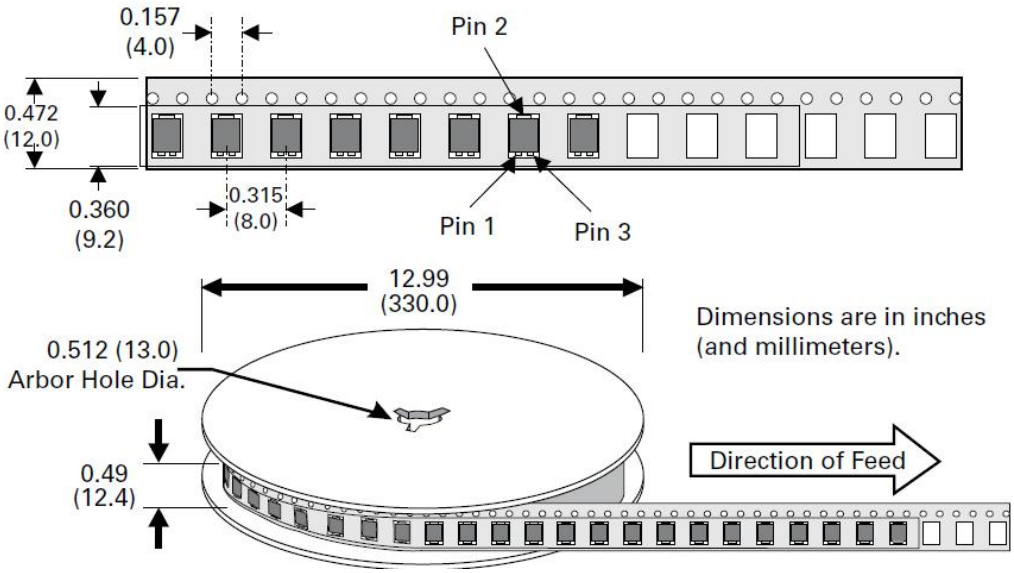
Product Dimensions

Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.130	0.155	3.30	3.94
B	0.201	0.22	5.10	5.60
C	0.077	0.083	1.95	2.11
D	0.166	0.185	4.22	4.70
E	0.030	0.063	0.75	1.60
F	0.075	0.096	1.90	2.45
G	0.002	0.008	0.05	0.20
H	0.077	0.096	1.95	2.45
M	0.018	0.028	0.46	0.71
K	0.008	0.014	0.20	0.35
N	0.022	0.028	0.56	0.71
J	0.039	0.053	1.00	1.35
P	0.052	0.058	1.32	1.47



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Tape and Reel Specification-Modified DO-214AA-3



Summary of Packing Options

Package Type	Description	Packing Quantity	Industry Standard
DO-214AA(SMB-3) 	Modified DO-214AA 3-leaded Tape Reel Pack	3000PCS	EIA-481-D

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