

# Mounting Position: Any

Weight: 0.003 ounces, 0.093 gram

- · Low profile package with built-in strain relief for surface mounted applications
- 50 Amp (10/1000μs) available in SMA package

## Maximum Ratings and Thermal Characteristics TA= 25°C unless otherwise noted.

Parameter		Symbol	AA	Α	С	Unit
Case outline		-	SMA	SN	ИВ	_
Peak Pulse Current	10/1000µs 8/20µs	IPP	50 200	50 200	100 300	А
Non-repetitive surge peak on-state current at 60Hz		Ітѕм	20	20	60	A
Critical rate of rise of off-state voltage (VRM)		dV/dt	5			KV/µs
Storage temperature range		Tstg	-55 to +150			°C
Junction temperature range		Tj	-40 to 150			°C
Thermal resistance junction to leads		R <sub>θJL</sub>	3	0	20	°C/W
Thermal resistance junction to ambient on P.C.B. with recommended pad layout		RθJA	12	20	90	°C/W

#### IPP Ratings for the Following Surge Standards

•	0 0		
Standard	Waveform	IPP (A, AA)	IPP (C)
GR-1089-CORE	2/10µs	300A+	500A
IEC61000-4-5	8/20µs	200A+	300A
FCC Part 68	10/160µs	120A <sup>+</sup>	250A+
ITU-TK20/21	10/700µs	100A	200A
FCC Part 68	10/560µs	75A+	160A+
GR-1089-CORE	10/1000µs	50A+	100A

Values with <sup>+</sup> have improved IPP specs over equivalent competitor part numbers

VISHA

#### Vishay Semiconductors formerly General Semiconductor

	Stand-off Voltage	Max. Reverse Leakage at Vdrм	Maximum Breakover Voltage	Maximum Breakover Current	Max. On-State Voltage at I⊤ = 1A	Minimum Holding Current	Typi Capac C (p	itance
Туре	V <sub>DRM</sub> (V)	Idrm (µA)	VBO (V) <sup>(1)(3)</sup>	Іво (mA) <sup>(1)</sup>	Vт (V)	Iн (mA)	AA, A	С
P0640S_	58	5	70*	800	3.0	150	75	115
P0720S_	65	5	80*	800	3.0	150	70	115
P0900S_	75	5	95*	800	3.0	150	66	115
P1100S_	90	5	115*	800	3.0	150	60	75
P1300S_	120	5	145*	800	3.0	150	50	70
P1500S_	140	5	180	800	3.0	150	45	65
P1800S_	160	5	220	800	3.0	150	45	65
P2300S_	190	5	250*	800	3.0	150	45	65
P2600S_	220	5	290*	800	3.0	150	40	65
P3100S_	275	5	350	800	3.0	150	40	60
P3500S_	320	5	395*	800	3.0	150	35	60

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

**Notes:** (1) dv/dt = 100V/µs

(2) V<sub>R</sub> = 2V, f = 1MHz

(3) Values with \* have improved VBO specs over equivalent competitor part numbers

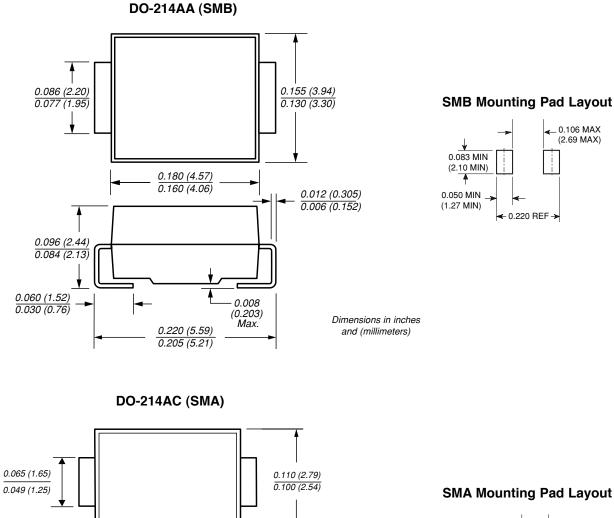
### **Device Marking**

Туре	Suffix					
	AA	А	C			
P0640S_	06A	P06A	P06C			
P0720S_	07A	P07A	P07C			
P0900S_	09A	P09A	P09C			
P1100S_	11A	P11A	P11C			
P1300S_	13A	P13A	P13C			
P1500S_	15A	P15A	P15C			
P1800S_	18A	P18A	P18C			
P2300S_	23A	P23A	P23B			
P2600S_	26A	P26A	P26B			
P3100S_	31A	P31A	P31C			
P3500S_	35A	P35A	P35C			



### PxxxxSA/C/AA Series

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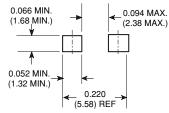
0.012 (0.305)

0.006 (0.152)

0.177 (4.50) 0.157 (3.99)

0.208 (5.28)

0.008 (0.203) MAX.



0.090 (2.29) 0.078 (1.98)

0.060 (1.52)

0.030 (0.76)



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