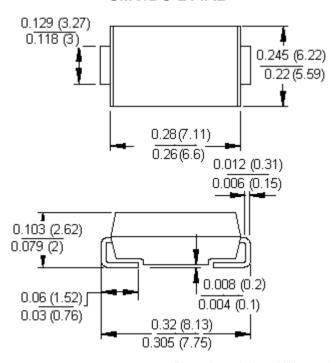
Controlled Avalanche Power Diodese multicomp



Features:

- For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- · Low forward voltage drop
- Easy pick and place
- High surge current capability
- Epitaxial construction
- High temperature soldering : 260°C / 10 seconds at terminals

SMC/DO-214AB



Dimensions : Inches (Millimetres)

Mechanical Data:

Case : Moulded plastic Terminals : Solder plated

Polarity : Indicated by cathode band

multicomp

Controlled Avalanche Power Diodes multicomp

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	SS34	SS36	Unit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60		
Maximum RMS Voltage	V_{RMS}	28	42	V	
Maximum DC Blocking Voltage	V_{DC}	40	60		
Maximum Average Forward Rectified Current at T _L (See Figure 1)	I _(AV)	3		А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100			
Maximum Instantaneous Forward Voltage (Note 1) at 3 A	V _F	0.5	0.75	V	
Maximum DC Reverse Current at T _A = 25°C	I _R	0.5		mA.	
at Rated DC Blocking Voltage at T _A = 100°C		20	10		
Typical Thermal Resistance (Note 2)	R _{θJL} R _{θJA}	17 55		°C / W	
Operating Temperature Range	T_J	-55 to +125	-55 to +150	°C	
Storage Temperature Range	T _{STG}	-55 to +150			

Notes: 1. Pulse test with PW = 300 μ s, 1% duty cycle

2. Measured on PC Board with 0.6 × 0.6 inches (16 × 16 mm) copper pad areas

Ratings and Characteristic Curves

Figure 1 Maximum Forward Current Derating Curve

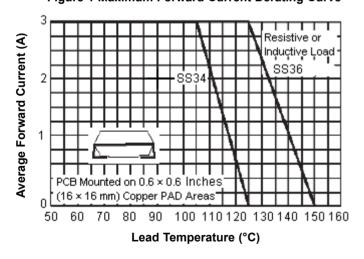
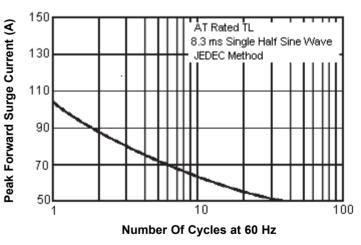


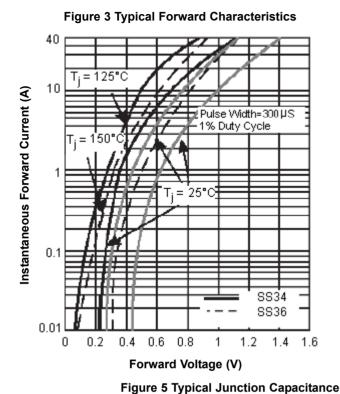
Figure 2 Maximum Non-Repetitive Forward Surge Current

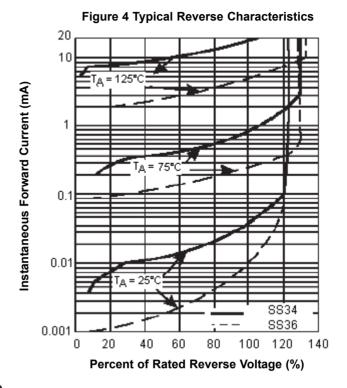




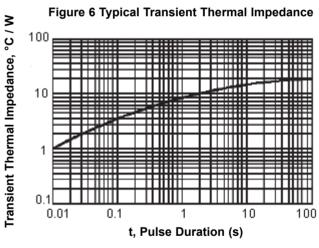
Controlled Avalanche Power Diodes multicomp







1,000 f =1 MHz Junction Capacitance (pF) . Vsig = 50 mVp 100 SS34 10 Reverse Voltage (V)



Specification Table

I _{F (AV)} (A)	T _C (°C)	V _{RRM} (V)	V _{FM} Maximum (V)	I _{RM} Maximum (mA)	Package	Part Number
3 105	105	40	0.5	0.5	DO-214AB	SS34
	60	0.75	0.5	(SMC)	SS36	

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com



13/06/12 V1.1 Page <3>