CT3550-1.2 August 1992

DC1016 & DC1028A

MINIATURE EPOXY PIN DIODES

DESCRIPTION

The DC1016 utilises an epoxy encapsulation to give the best combination of power handling and low parasitics. It can pass over 1A r.m.s., or block over 60V r.m.s., at 30MHz (0.5A and 20V at 10MHz) without loss of performance. The 0.7mm silver wires are joined directly to the silicon chip and up to 3W can be dissipated in the diode. The DC1028A is a very small tape ended diode. Switching ratios of 0.3 - 1.8dB can be obtained at 400MHz when operating between zero bias and 50mA.

APPLICATIONS

DC1016 PIN diodes are designed for transmit/receive switching in mobile radios. DC1028A is ideal for PCB and stripline applications.

LIMITING CONDITIONS

Storage conditions	-55°C to +150°C
Operating temperature	-55°C to +150°C
Power dissipation	250mW

FEATURES

- Low Resistance
- Low Capacitance
- High Breakdown voltage
- Frequency range
- Mesa and Planar versions available

TYPICAL DC CHARACTERSITICS T_{amb} 25°C

Miniature Epoxy PIN Diodes

TYPE NUMBER	Outline No.	V_R min.	R_F max. (at 100mA)	Cd max.	t_{rr} (typ)	R_{th}
		V	Ohms	pF	nS	°C/W
DC1016	36	150	0.75	0.7	1000	40
DC1028A	08	250	1.1	0.45	2000	350