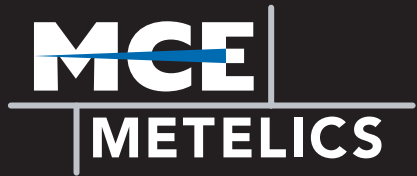


BEAM LEAD GaAs SCHOTTKY FOR MIXERS AND DOUBLERS



FEATURES

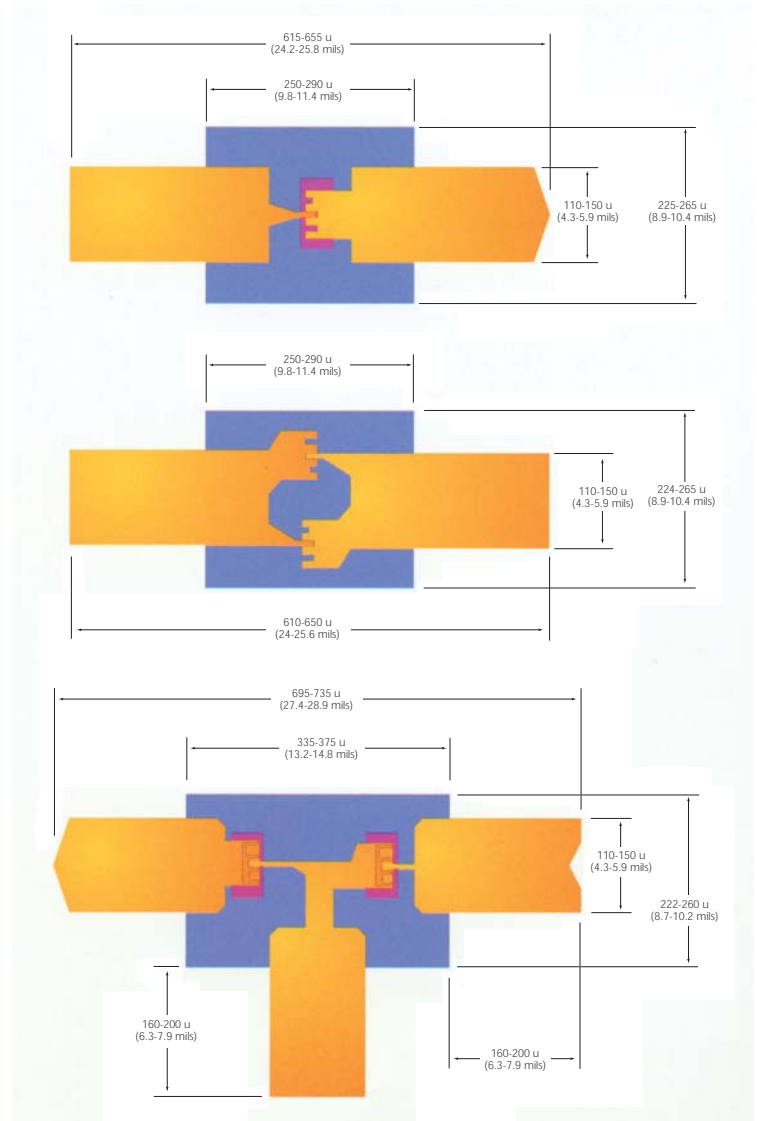
- Beam Lead Diode Packaging
- Low Capacitance 0.08/0.04 pF typical
Anti-parallel/single
- Low Rs 4 ohms typical
- Single and Anti-Parallel configurations
- Oxide/Nitride/Polyimide Passivation for High Reliability

MAXIMUM RATING

- Total Power Dissipation: 75 mW @ +25°C
Derate linearly to 0 at +150°C
- Operation Temperature: -65 to +150°C
- Storage Temperature: -65 to +150°C

DESCRIPTION

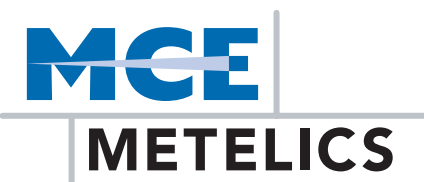
Metelics' GaAs Beam Lead diode process offers Single and Anti-Parallel devices with high performances at commercial prices. These Diodes are optimized for use in mixer application at millimeter frequencies. The Single is ideal for single ended mixer, the Anti-Parallel is ideal for harmonic mixers and the Tee is used in balanced mixers. The device can be mounted using thermal compression bonding or epoxy beam attach.



Part Number	Style	Vf @ 1 mA mV	Delta Vf @ 1 mA	Min. Vbr @ 10 uA V	Max. Ct ¹ @ 0V pF	Delta Ct pF	Max. Rs ² @ 5 mA
MGS901	Single	650-750	NA	5	.06	NA	7
MGS902	Anti-Parallel Pair	650-750	20	NA	.10	NA	7
MGS903	Tee	650-750	20	5	.06	.02	7

Note 1. Ct is total capacitance including overlay capacitance

Note 2. Rs is the series resistance calculated from Rd(5mA)-6 ohms (Rj(5mA))



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