Diode

MX51363-145 Datasheet Dual Anti-Parallel Pair Step Recovery Diodes



Features

- Low total capacitance (C <2.0pF)
- High cut-off frequency
- High Stability
- Ceramic surface mount package
- RoHS compliant

Description

The MX51363-145 step recovery diodes are designed with epitaxial silicon which provides high output power and efficiency in harmonic generator application. It is manufactured using proven diode fabrication processes for high reproducibility. A unique silicon dioxide passivation process assures greater stability reliability and low leakage currents at high temperatures.

The diode is available in microstrip compatible ceramic substrate with copper leads.

Low total capacitance of the $\mathsf{MX51363}\mbox{-}145$ enables the device to be used in active MRI switching.

This rugged device is capable of reliable operation in all military, commercial and industrial applications. The device is RoHS compliant.

Handling Procedures

These devices are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these devices. ESD rating for this device is class 0 (HBM)

Environmental Capabilites

MX51363-145 anti parallel pair of step recovery diode is capable of meeting the environmental requiremnts of MIL-STD-750 and MIL-STD-883.

Assembly

The MX51363-145 Step recovery diode module is capable of being placed onto circuit boards with pick and place manufacturing equipment from tape and reel. The devices are attached to the circuit using conventional solder re-flow or wave soldering procedures with RoHS type or Sn63/Pb37 type solders

Specification

Parameter	Condition at 25°C	Min	Тур	Max	Units
Breakdown Voltage	I _R =10µA	40	-	-	V
Total Capacitance	V _R =0V, f=1MHz	-	-	2.0	pF
Forward Voltage	I _F =25mA	-	915	-	mV

Dimensions



Absolute Max Ratings

Parameter	Мах		
Reverse DC Voltage	40V		
Operating Temp	-55°C to +150°C		
Storage Temp	-65°C to +200°C		
Junction Temp	150°C		

Functional Schematic



Case Style- CS145

