

Features

DATA SHEET

MUR240

Power Rectifier These state-of-the-art devices are designed for use in switching power supplies, inverters and as free wheeling diodes.



Unit:inch(mm)

Ultrafast Recovery Times 175°C Operating Junction Temperature Low Forward Voltage Low Leakage Current High Temperature Glass Passivated Junction These are Pb–Free Devices* High temperature soldering : 260°C / 10 seconds at terminals Pb free product at available : 99% Sn above meet RoHS environment substance directive request

DO-15

Mechanical Characteristics:

Case: Epoxy, Molded
Weight: 0.4 Gram (Approximately)
Finish: All External Surfaces Corrosion Resistant and Terminal
Leads are Readily Solderable
Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
Polarity: Cathode Indicated by Polarity Band
Shipped in Plastic Bags; 1,000 per Bag
Available Tape and Reel; 5,000 per Reel, by Adding a "RL" Suffix to
the Part Number

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	VRRM	400	
Working Peak Reverse Voltage	VRWM	400	V
DC Blocking Voltage	VR	_	
Average Rectified Forward Current (Note 1) (Square Wave Mounting Method #3 Per Note 3)	lF(AV)	2.0 @ TA = 85°C	A
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, single phase, 60 Hz)	IFSM	60	А
Operating Junction Temperature and Storage Temperature Range	TJ, Tstg	–55 to +150	°C
	•	•	

Characteristic	Symbol	Value	Unit		
Maximum Thermal Resistance,	DOIA	See	°C/W		
Junction-to-Ambient	RUJA	Note 3			

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. Pulse Test: Pulse Width = 300 μ s, Duty Cycle ≤ 2.0%.

*For additional information on our Pb–Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MUR240

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage (Note 2) (IF = 2.0 Amp, TJ = 150℃) (IF = 2.0 Amp, TJ = 25℃)	VF	0.85 1.0	V
Maximum Instantaneous Reverse Current (Note 2) (Rated dc Voltage, TJ = 150°C) (Rated dc Voltage, TJ = 25°C)	lR	150 5	μA
Maximum Reverse Recovery Time (I⊧ = 0.5 Amp, IR = 1.0 Amp, IREC = 0.25 A)	trr	50	ns
Maximum Forward Recovery Time (Ιϝ = 1.0 A, di/dt = 100 A/μs)	trr	50	ns

2. Pulse Test: Pulse Width = 300 _s, Duty Cycle \leq 2.0%.





RATING AND CHARACTERISTIC CURVES MUR240

http://www.yeashin.com

REV.02 20110725