MURS105 THRU MURS160

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE:50 TO 600V CURRENT: 1.0A



FEATURE

Ultrafast Nanosecond Recovery Times 150°C Operating Junction Temperature Low Forward Voltage Low Leakage Current High Temperature Glass Passivated Junction

Mechanical Characteristics

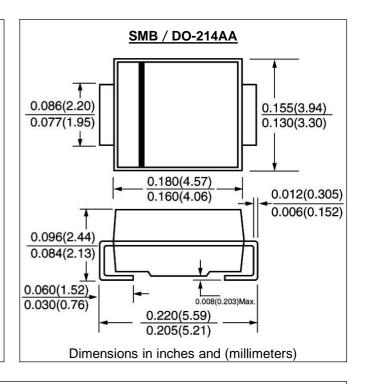
Case: JEDEC SMB/DO-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method

2026

Polarity: Color band denotes cathode end

Mark: M105B M110B M120B M130B M140B M160B



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

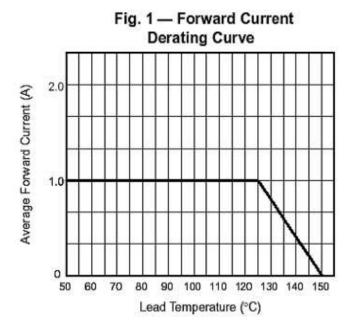
	SYMBOL	MURS 105	MURS 110	MURS 120	MURS 130	MURS 140	MURS 160	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	V
Maximum DC blocking Voltage	Vdc	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current 3/8"lead length at TL =125°C	If(av)	1.0						Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	40			35			Α
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	0.875			1.25		V	
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	10 150						μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	25			50			nS
Typical Junction Capacitance (Note 2)	Cj	25						pF
Typical Thermal Resistance (Note 3)	Rth(jl)	13						°C /W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150						°C

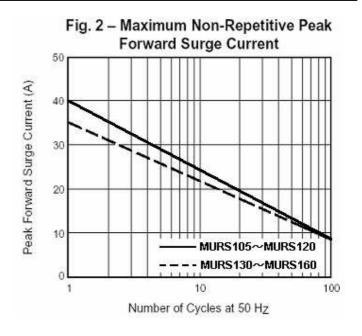
Note:

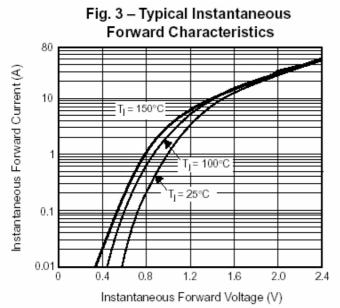
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

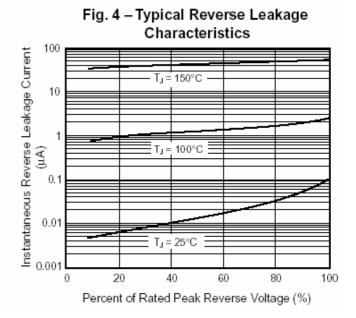
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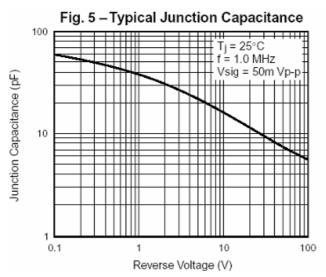
RATINGS AND CHARACTERISTIC MURVES MURS105 THRU MURS160











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