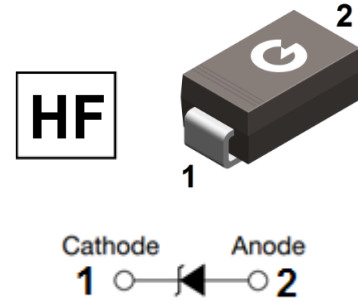


Super-Fast Recovery Rectifier

MURA110 - MURA120

Features

- Low forward voltage drop
- High forward surge current capability
- Low-profile SMD ideal for automated manufacturing
- RoHS compliant with Halogen-free



Mechanical Data

- Case: SMA molded plastic
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Solder plated; solderable per MIL- STD-202, Method 208
- Polarity: Color band denotes cathode end

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Parameter	Symbol	MURA110	MURA120	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	100	200	V
RMS Reverse Voltage	V _{RMS}	70	140	V
DC Blocking Voltage	V _{DC}	100	200	V
Maximum Average Forward Output Current	I _{F_AV}	1.0		A
Peak Forward Surge Current, 8.3ms Single Half Sine wave	I _{FSM}	40		A

Thermal Characteristics

Parameter	Symbol	MURA110	MURA120	Unit
Typical Thermal Resistance *1	R _{θJA}	70		°C/W
	R _{θJC}	25		
	R _{θJL}	30		
Operating Junction Temperature Range	T _J	-55 ~ +150		°C
Storage Temperature Range	T _{STG}	-55 ~ +150		°C

Note *1: Device mounted on p.c.b. with 10 mm x 20 mm x 0.1mm copper pad area

Super-Fast Recovery Rectifier

MURA110 - MURA120

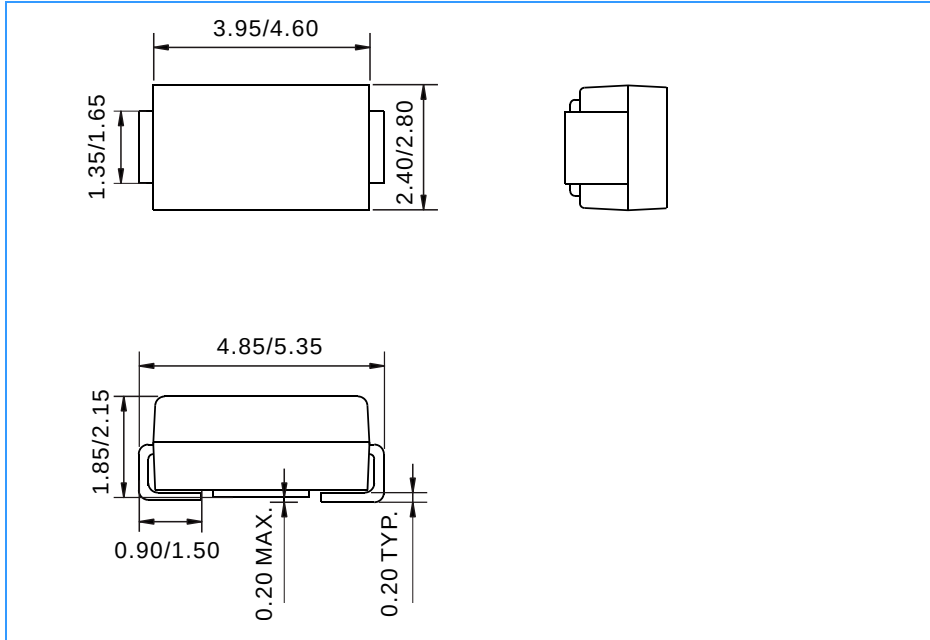
Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition		Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R = 2\mu\text{A}$, MURA110		100	-	-	V
		$I_R = 2\mu\text{A}$, MURA120		200	-	-	V
Maximum Instantaneous Forward Voltage	V_F	$I_F = 1.0\text{A}$		-	-	0.88	V
Maximum Reverse Current	I_R	Rated	@ $T_A = 25^\circ\text{C}$	-	-	2.0	μA
		V_R	@ $T_A = 125^\circ\text{C}$	-	-	50.0	
Maximum Reverse Recovery Time	t_{rr}	$I_F = 0.5\text{A}$, $I_{RM} = 1\text{A}$, $I_{R(REC)} = 0.25\text{A}$		-	-	35	ns

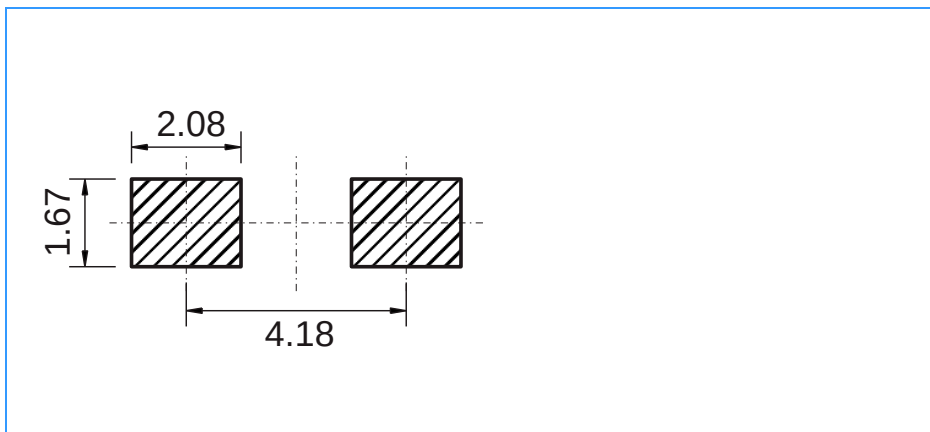
Super-Fast Recovery Rectifier

MURA110 - MURA120

Package Outline Dimensions (unit: mm)



Mounting Pad Layout (unit: mm)



Ordering Information

Part Number	Marking	Package	Shipping Quantity
MURA110	S110	SMA	5000 pcs / Tape & Reel
MURA120	S120	SMA	5000 pcs / Tape & Reel