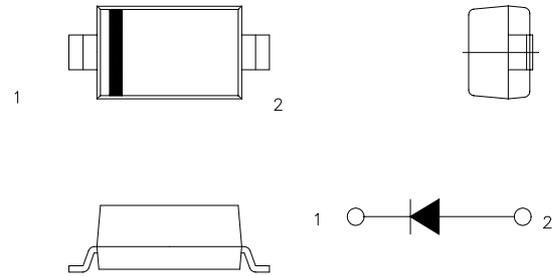


FRD Type : EP05FA20

OUTLINE DRAWING

FEATURES

- * JEDEC SOD-123 Package
- * Ultra-Fast Recovery
- * Very Low Profile 1.1mm Max
- * High Surge Capability
- * Low Thermal Resistance
- * Packaged in 8mm Tape and Reel



Maximum Ratings

Approx Net Weight:0.011g

Rating	Symbol	EP05FA20		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	200		V
Non-repetitive Peak Reverse Voltage	V_{RSM}	220		V
Average Rectified Output Current	I_O	0.45	$T_a=25\text{ }^\circ\text{C}^*$	50Hz Half Sine Wave Resistive Load
		0.5	$T_l=115\text{ }^\circ\text{C}$	
RMS Forward Current	$I_{F(RMS)}$	0.785		A
Surge Forward Current	I_{FSM}	8	50Hz Half Sine Wave, 1cycle Non-repetitive	A
Operating Junction Temperature Range	T_{jw}	-40 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +150		$^\circ\text{C}$

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25\text{ }^\circ\text{C}$, $V_{RM}=V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j=25\text{ }^\circ\text{C}$, $I_{FM}=1.0\text{A}$	-	-	0.95	V
Reverse Recovery Time	t_{rr}	$I_{FM}=1\text{A}$, $-di/dt=50\text{A}/\mu\text{s}$, $T_a=25\text{ }^\circ\text{C}$	-	-	30	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *	-	-	300	$^\circ\text{C}/\text{W}$
	$R_{th(j-l)}$	Junction to Lead	-	-	70	

* Glass Epoxy Substrate Mounted Soldering Lands=1x1mm, Both Sides

EP05FA20 OUTLINE DRAWING (Dimensions in mm)

