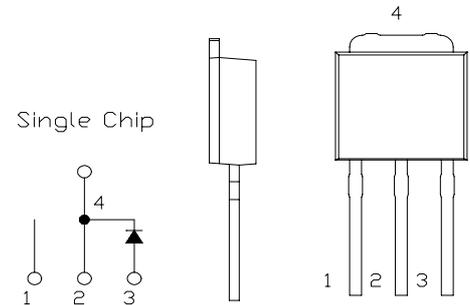


FRD Type : EA31FS2

OUTLINE DRAWING

FEATURES

- * TO-251AA Case
- * Ultra – Fast Recovery
- * Low Forward Voltage drop
- * Low Power Loss
- * High Surge Capability
- * 200 Volts thru 600 Volts Types Available



Maximum Ratings

Approx Net Weight:0.35g

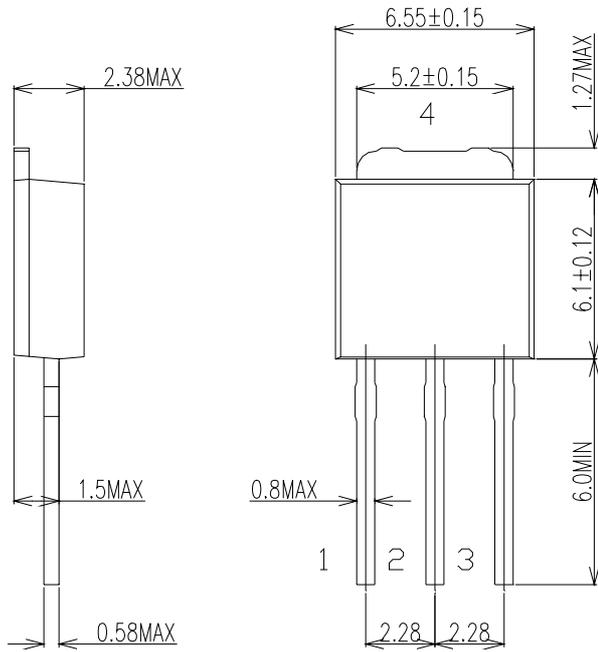
Rating		Symbol	EA31FS2			Unit
Repetitive Peak Reverse Voltage		V_{RRM}	200			V
Non-repetitive Peak Reverse Voltage		V_{RSM}	220			V
Average Rectified Output Current	P.C.Board mounted *	I_O	1.7	$T_a=30^{\circ}C$	50Hz Half Sine Wave Resistive Load	A
	-		3.0	$T_c=129^{\circ}C$		
RMS Forward Current		$I_{F(RMS)}$	4.71			A
Surge Forward Current		I_{FSM}	45	50Hz Half Sine Wave, 1cycle, Non-repetitive		A
Operating Junction Temperature Range		T_{jw}	- 40 to + 150			$^{\circ}C$
Storage Temperature Range		T_{stg}	- 40 to + 150			$^{\circ}C$

Electrical • Thermal Characteristics

Characteristics		Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current		I_{RM}	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$ per Arm	-	-	10	μA
Peak Forward Voltage		V_{FM}	$T_j=25^{\circ}C, I_{FM}= 3 A$ per Arm	-	-	0.98	V
Reverse Recovery Time		t_{rr}	$I_{FM}= 3 A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	-	-	30	ns
Thermal Resistance	Junction to Ambient	$R_{th(j-a)}$	P.C.Board mounted *	-	-	80	$^{\circ}C/W$
	Junction to Case	$R_{th(j-c)}$	-	-	-	6	$^{\circ}C/W$

* Print Land = 20x20 mm

EA31FS2 OUTLINE DRAWING (Dimensions in mm)



Single Chip

