

FST10120 to FST10150 Dual Schottky Barrier Rectifiers

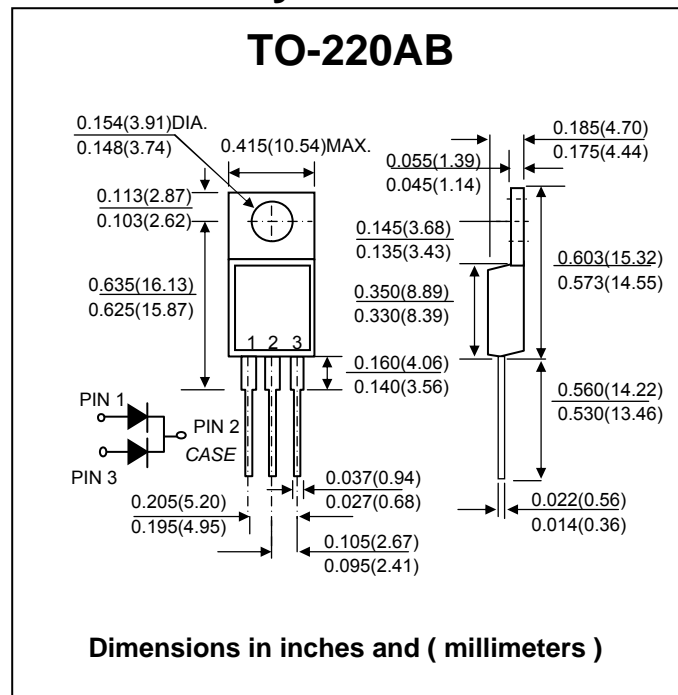
PRV : 120 - 150 Volts
Io : 10 Ampere

FEATURES :

- * Guard ring for reverse protection
- * Low power loss
- * High efficiency
- * High surge capacity
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : JEDEC TO-220AB molded plastic body
- * Terminals: Plated leads, solderable per MIL-STD-750 Method 2026
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise noted.)

PARAMETER	SYMBOL	FST10120	FST10130	FST10150	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	120	130	150	V
Maximum Average Forward Rectified Current at $T_C = 162^\circ\text{C}$	$I_{F(AV)}$	10 5			A
Maximum Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load Per Leg	I_{FSM}	200			A
Maximum Instantaneous Forward Voltage Per Leg ⁽¹⁾	V_F	0.82 0.63			V
Maximum Reverse Current Per Leg at Working Peak Reverse Voltage ⁽¹⁾	I_R	100			μA
	$I_{R(H)}$	125			μA
Typical Junction Capacitance ($V_R = 5\text{ V}, T_J = 25^\circ\text{C}$)	C_J	180			pF
Typical Thermal Resistance, Junction to Case, Per Leg	$R_{\theta JC}$	3.6			$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 55 to + 175			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 to + 175			$^\circ\text{C}$

Note :

(1) Pulse Test: Pulse Width 300 μs , Duty Cycle 2% .

RATING AND CHARACTERISTIC CURVES (FST10120~ FST10150)

FIG.1 - FORWARD CURRENT DERATING PER LEG

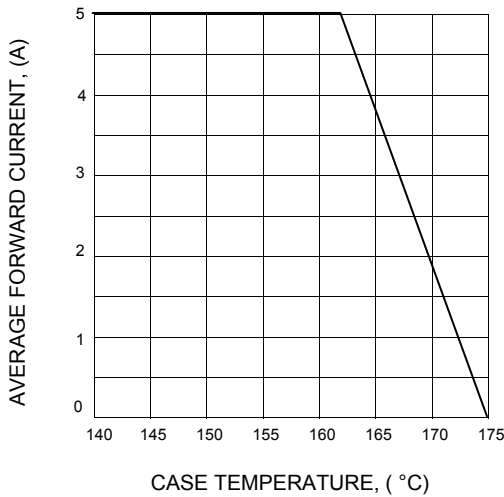


FIG.2 - TYPICAL JUNCTION CAPACITANCE PER LEG

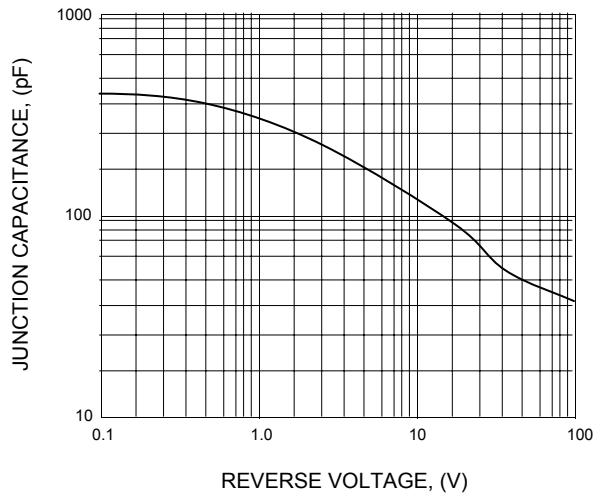


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

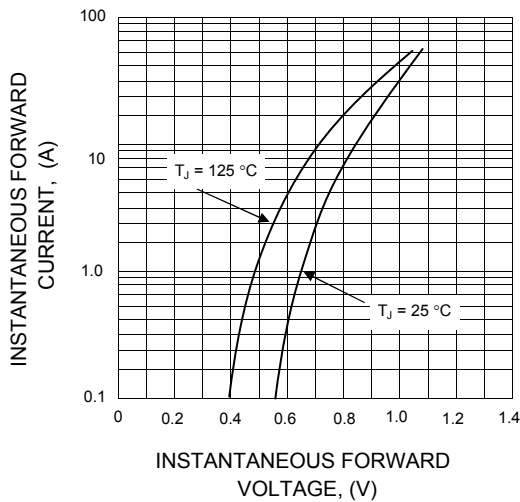


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

