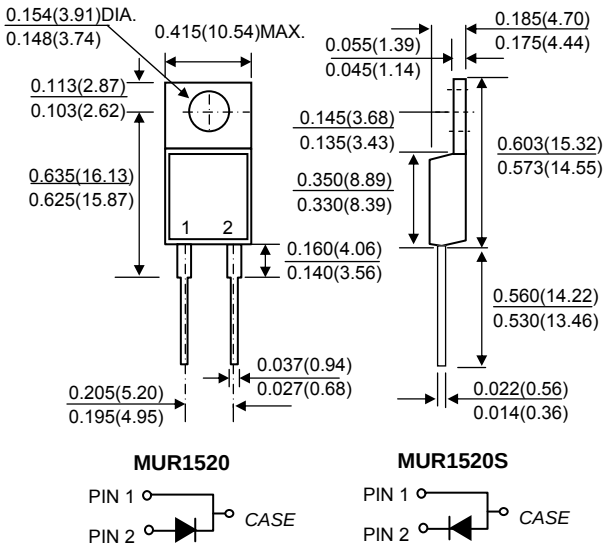
MUR1520/S

ULTRAFAST RECTIFIERS

PRV : 200 Volts
Io : 15 Ampere

TO-220AC



Dimensions in inches and (millimeters)

FEATURES :

* Glass passivated junction chip
* High current capability
* Low forward drop
* Low leakage
* Pb / RoHS Free

MECHANICAL DATA :

* Case : Epoxy, Molded
* Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
* Polarity: As marked
* Mounting Position: Any
* Weight : 2.24 grams (Approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Maximum Working Peak Reverse Voltage	V_{RWM}	200	V
Maximum DC Blocking Voltage	V_R	200	V
Maximum Average Forward Current, Tc = 150°C	$I_{F(AV)}$	15	A
Maximum Non-repetitive Peak Surge Current (Surge applied at rated load conditions halfwave,single phase, 60 Hz)	I_{FSM}	200	A
Maximum Instantaneous Forward Voltage (I_F = 15 A, T_C = 25 °C)	V_F	1.05	V
(Note 1) (I_F = 15 A, T_C = 150 °C)		0.85	
Maximum Instantaneous Reverse Current at T_C = 25 °C	I_R	10	µA
Rated DC Voltage (Note 1) at T_C = 150 °C	$I_{R(H)}$	500	µA
Maximum Reverse Recovery Time (I_F = 1.0 Amp, di/dt = 50 A/µs)	Trr	35	ns
Maximum Thermal Resistance, Junction to Case	$R_{\Theta JC}$	1.5	°C/W
Operating Junction Temperature	T_J	- 50 to + 200	°C
Storage Temperature Range	T_{STG}	- 50 to + 175	°C

Note :

(1) Pulse Test: Pulse Width = 300 µs, Duty Cycle ≤ 2.0%.

RATING AND CHARACTERISTIC CURVES (MUR1520/S)

FIG.1 - CURRENT DERATING, CASE

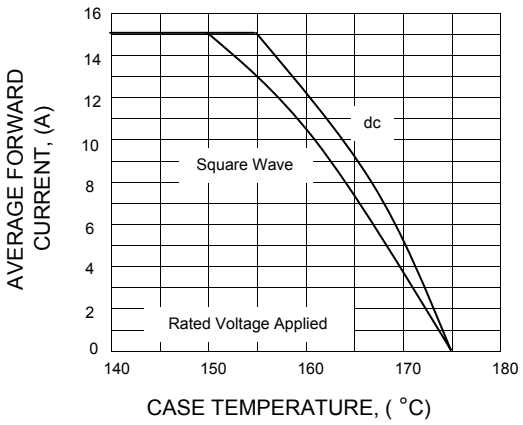


FIG.2 - POWER DISSIPATION

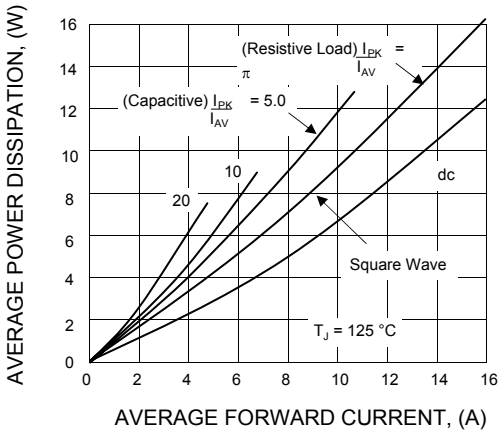


FIG.3 - TYPICAL FORWARD VOLTAGE

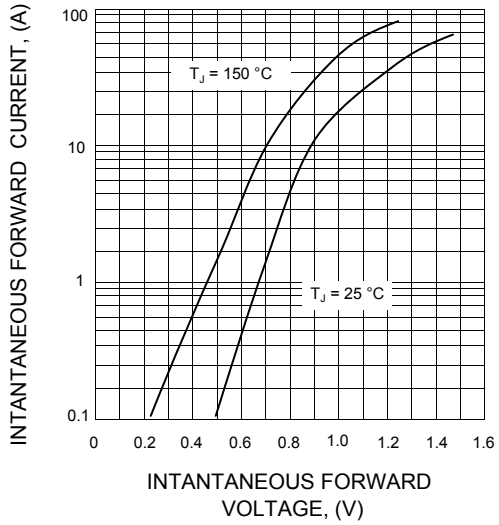


FIG. 4 - TYPICAL REVERSE CURRENT