

MURS440

PRV : 400 Volts
I_o : 4.0 Amperes

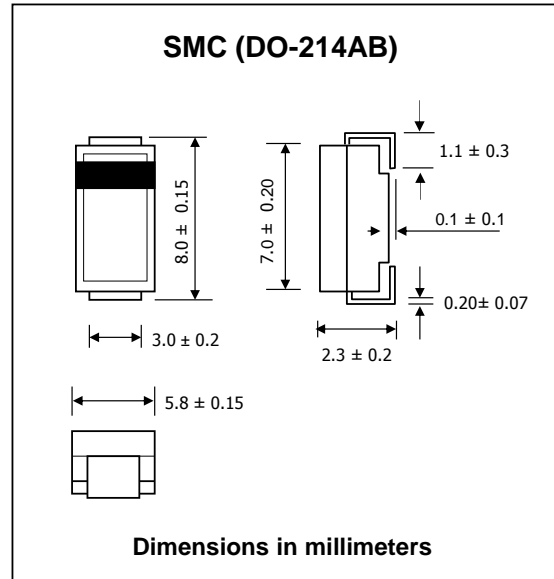
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Moisture Sensitivity Level 1 (Unlimited)
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : SMC Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.21 gram

ULTRAFAST RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	400	V
Maximum Working Reverse Voltage	VRWM	400	V
Maximum DC Blocking Voltage	VDC	400	V
Maximum Average Forward Current , Ta = 40 °C	IF(AV)	4.0	A
Maximum Non-repetitive Peak Forward Surge Current	IFSM	70	A
Maximum Forward Voltage at IF = 4 A. (Note 1)	VF	1.28	V
Maximum Reverse Current at T _J = 25 °C	IR	10	μA
Rated DC Blocking Voltage T _J = 125 °C	IR(H)	250	μA
Maximum Reverse Recovery Time (Note 2)	Trr	50	ns
Junction Temperature Range	TJ	- 65 to + 175	°C
Storage Temperature Range	TSTG	- 65 to + 175	°C

Notes :

- (1) Pulse Test : Pulse Width = 300 μs, Duty Cycle ≤ 2.0%
- (2) Reverse Recovery Test Conditions : IF = 0.5A, IR = 1A ; Irr = 0.25 A

RATING AND CHARACTERISTIC CURVES (MURS440)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

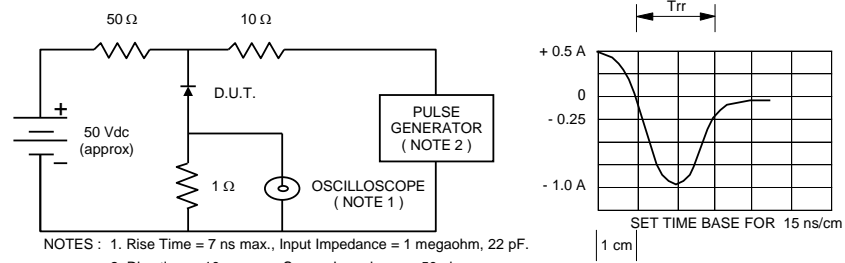


FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

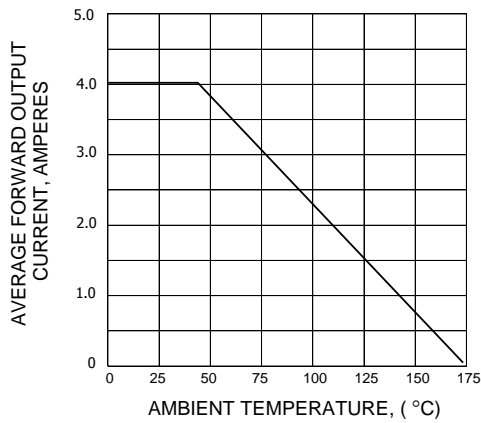


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

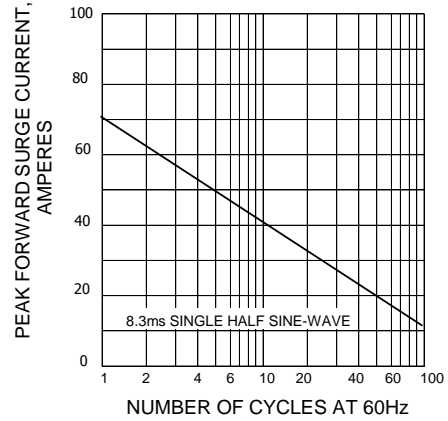


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

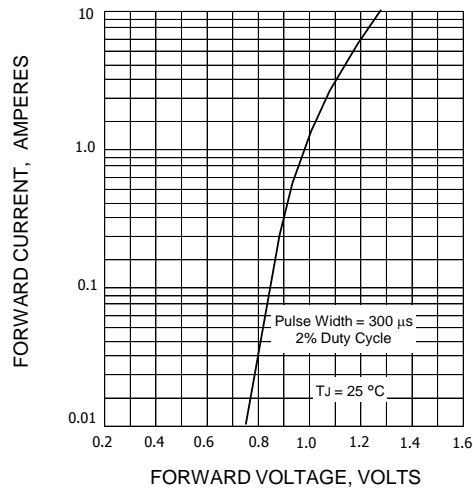


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

