

BYT56A - BYT56M

PRV : 50 - 1000 Volts

Io : 3.0 Amperes

FEATURES :

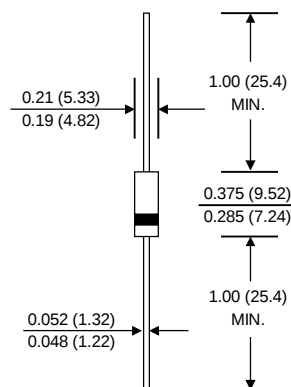
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-201AD Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 1.16 grams

FAST RECOVERY RECTIFIERS

DO-201AD



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	BYT 56A	BYT 56B	BYT 56D	BYT 56G	BYT 56J	BYT 56K	BYT 56M	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum Reverse Voltage	VR	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	IF(AV)	1.5 (on PC Board)							A
		3.0 (L = 10 mm, TL = 25°C)							
Maximum Peak Forward Surge Current, (tp = 10 ms, half sinewave)	IFSM	80							A
Maximum Forward Voltage at IF = 3 A	VF	1.4							V
Maximum Reverse Current (VR = VRRM)	IR	5 (Tj = 25°C)							μA
	IR(H)	150 (Tj = 150°C)							μA
Maximum Reverse Recovery Time (IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.)	Trr	100							ns
Maximum Junction Ambient Thermal Resistance (L = 10mm, TL = Constant)	RthJA	25							K/W
Junction Temperature Range	TJ	- 55 to + 175							°C
Storage Temperature Range	TSTG	- 55 to + 175							°C

Note :

(1) Reverse Recovery Test Conditions

RATING AND CHARACTERISTIC CURVES (BAT56A - BAT56M)

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

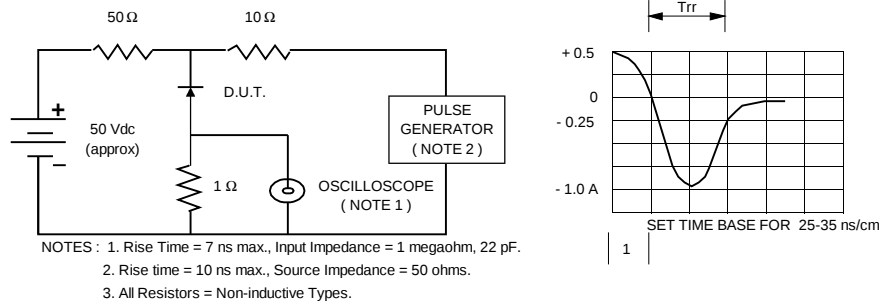


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

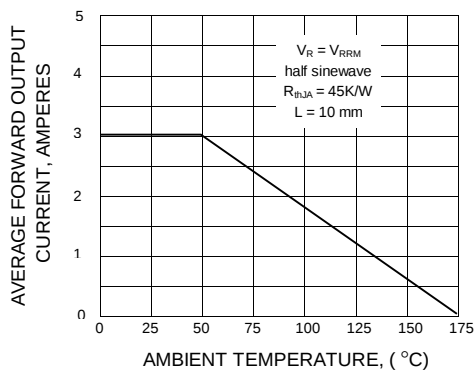


FIG.3 - MAXIMUM THERMAL RESISTANCE vs. LEAD LENGTH

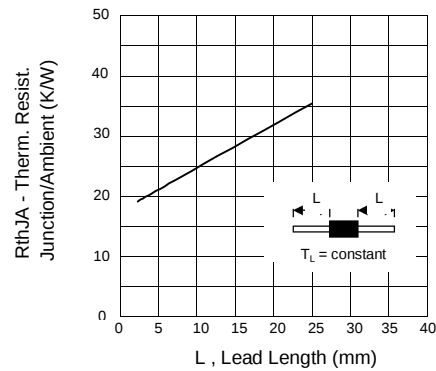


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

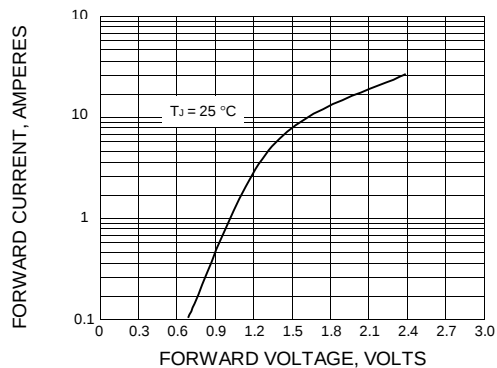


FIG.5 - REVERSE CURRENT vs. JUNCTION TEMPERATURE

