

2GWJ42

PRV : 40 Volts
Io : 2.0 Ampere

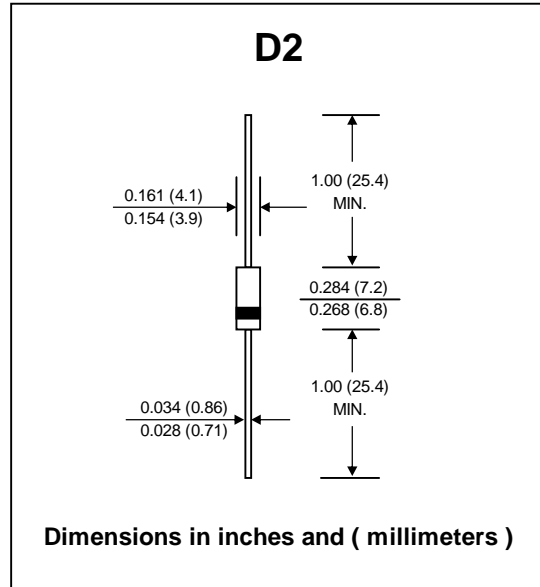
FEATURES :

- * 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 : D2 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 : 0.465 gram

SCHOTTKY BARRIER DIODE



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	40	V
Maximum Average Forward Current	IF(AV)	2.0	A
Maximum Peak One Cycle Surge Forward Current (Non repetitive)	IFSM	100	A
Maximum Peak Forward Voltage at IF = 2.0 A	VF	0.55	V
Maximum Repetitive Peak Reverse Current at VRRM	IRM	0.5	mA
Maximum Reverse Recovery Time (Note 1)	Trr	35	ns
Typical Junction Capacitance	Cj	125	pF
Junction Temperature Range	TJ	- 40 to + 125	°C
Storage Temperature Range	TSTG	- 40 to + 125	°C

Note :

(1) Reverse Recovery Test Conditions : IF = 1A, di/dt = -30 A/μs

RATING AND CHARACTERISTIC CURVES (2GWJ42)

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

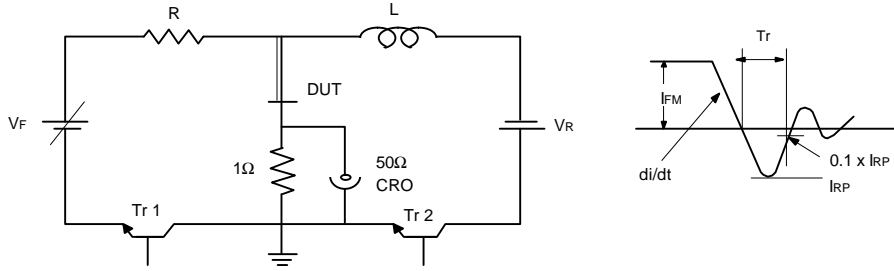


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

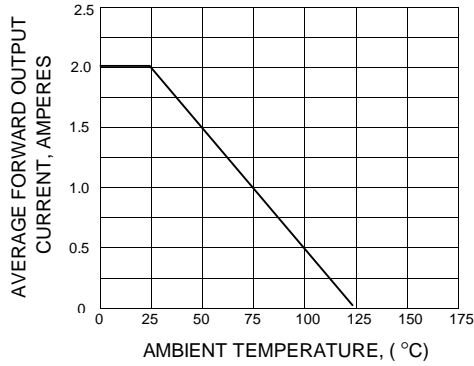


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

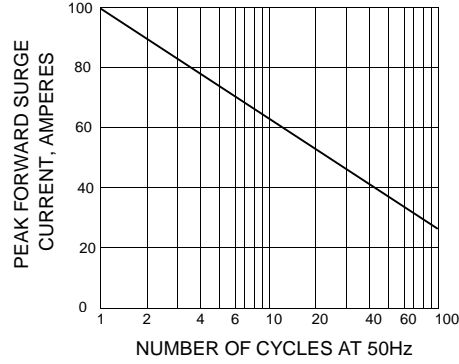


FIG.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

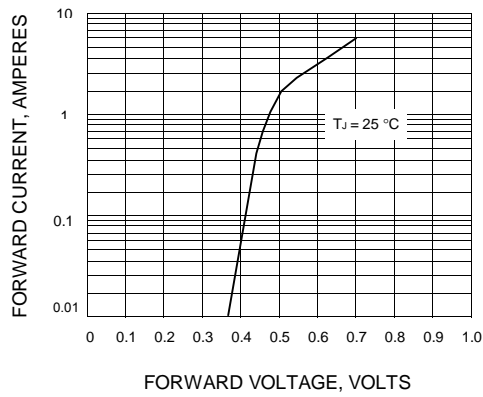


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

