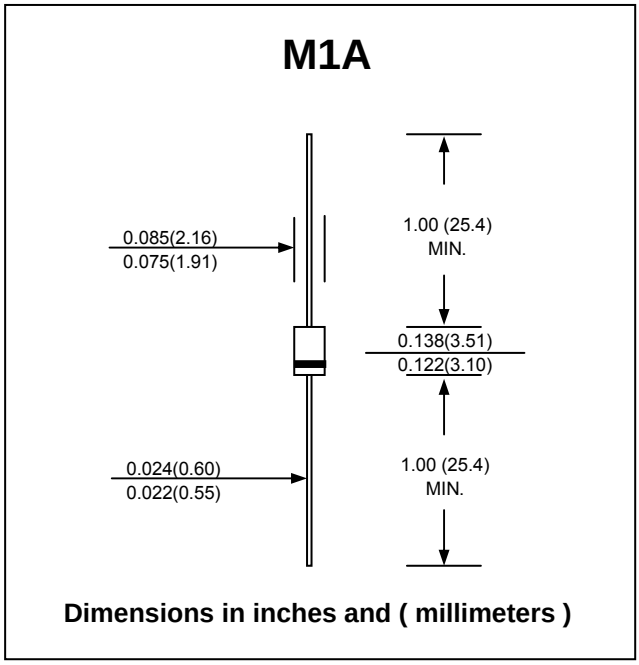
www.eicsemi.com

1GH46

FAST RECOVERY RECTIFIER

PRV : 400 Volts
Io : 1.0 Ampere



Dimensions in inches and (millimeters)

FEATURES :

* Glass passivated junction chip
* High reliability
* Low reverse current
* Low forward voltage drop
* Fast switching for high efficiency
* Pb / RoHS Free

MECHANICAL DATA :

* Case : M1A 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 : 0.20 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Maximum Average Forward Current, Ta = 25 °C	$I_{F(AV)}$	1.0	A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	15 (50Hz)	A
		17 (60Hz)	
Maximum Peak Forward Voltage at I_F = 1.0 A	V_F	1.1	V
Maximum Repetitive Peak Reverse Current at V_{RRM} = 400V	I_R	100	µA
Maximum Reverse Recovery Time (Note 1)	Trr	200	ns
Thermal Resistance, Junction to Ambient	$R_{\Theta JA}$	115	°C/W
Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

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

RATING AND CHARACTERISTIC CURVES (1GH46)

FIG.1 - DERATING CURRENT CURVE

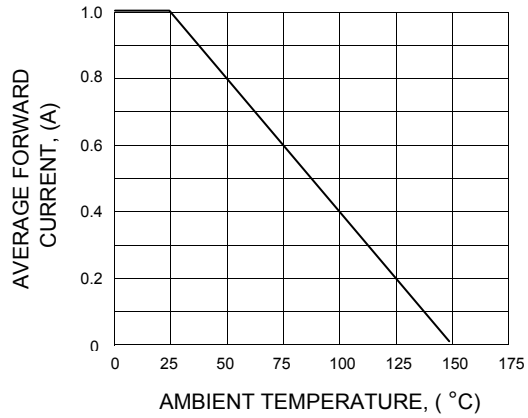


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

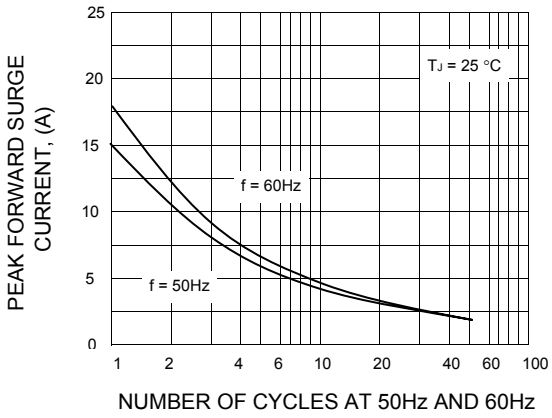


FIG.3 - TYPICAL FORWARD CHARACTERISTICS