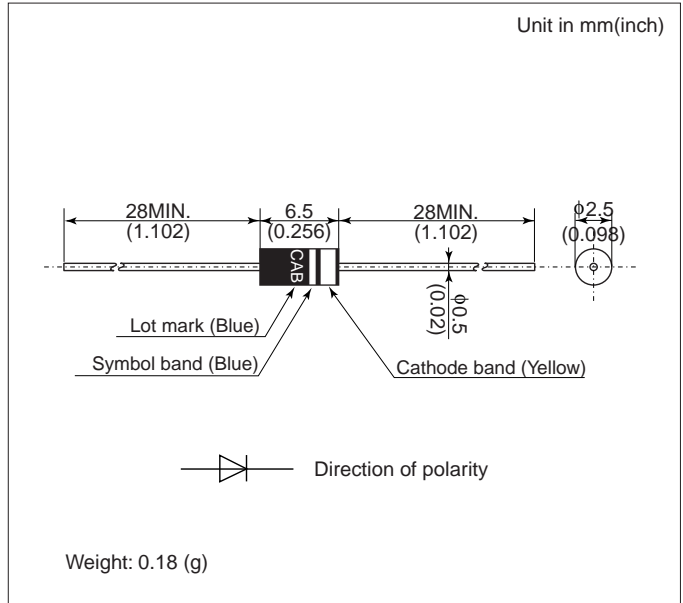


# DHM3FG80

## FEATURES

- For high resolution displays and TV receivers.
- Diffused-junction.
- Excellent high temperature output characteristics ( Small leakage current at high temperature and excellent reverse characteristics )

## OUTLINE DRAWING



## ABSOLUTE MAXIMUM RATINGS

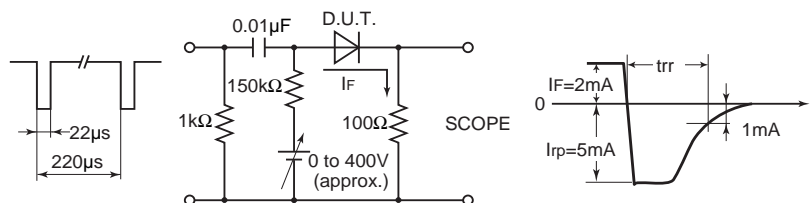
Item	Type		DHM3FG80
Repetitive Peak Reverse Voltage*	$V_{RRM}$	kV	8
Non-Repetitive Peak Reverse Voltage*	$V_{RSM}$	kV	10
Average Forward Current	$I_{F(AV)}$	mA	1 ( 63 kHz C-Load )
			3 ( 15.75kHz C-Load )
Surge(Non-Repetitive) Forward Current	$I_{FSM}$	A	0.5
Operating Junction Temperature	$T_j$	$^{\circ}C$	-40 ~ +120
Storage Temperature	$T_{stg}$	$^{\circ}C$	-40 ~ +120

## CHARACTERISTICS ( $T_C=25^{\circ}C$ unless otherwise specified)

Item	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current*	$I_{RRM}$	$\mu A$	—	—	2.0	$V_R = V_{RRM}$
Peak Forward Voltage	$V_{FM}$	V	—	—	28	$I_{FM} = 5mA_p$
Reverse Recovery Time	trr	ns	—	—	70	$I_F = 2mA, I_{RP} = 5mA, 1mA$ recovery

Notes \*Diode tested in adequate thermal and dielectric medium.

逆回復時間(trr)試験回路 / Reverse recovery time (trr) test circuit



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## Precautions for Safe Use and Notices

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If semiconductor devices are handled in inappropriate manner, failures may result.  
For this reason, be sure to read "Precaution for Use" before use.



This mark indicates an item about which caution is required.



### CAUTION

This mark indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and damage to property.



### CAUTION

- (1) Regardless of changes in external conditions during use "absolute maximum ratings" should never be exceed in designing electronic circuits that employ semiconductors. In the case of pulse use, furthermore, "safe operating area(SOA)" precautions should be observed.
- (2) Semiconductor devices may experience failures due to accident or unexpected surge voltages. Accordingly, adopt safe design features, such as redundancy or prevention of erroneous action, to avoid extensive damage in the event of a failure.
- (3) In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, life-support-related medical equipment, fuel control equipment and various kinds of safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of user's fail-safe precautions or other arrangement. Or consult Hitachi's sales department staff.

(If a semiconductor device fails, there may be cases in which the semiconductor device, wiring or wiring pattern will emit smoke or cause a fire or in which the semiconductor device will burst)

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## NOTICES

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1. This Datasheet contains the specifications, characteristics(in figures and tables), dimensions and handling notes concerning power semiconductor products (hereinafter called "products") to aid in the selection of suitable products.
2. The specifications and dimensions, etc. stated in this Datasheet are subject to change without prior notice to improve products characteristics. Before ordering, purchasers are advised to contact Hitachi's sales department for the latest version of this Datasheet and specifications.
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Refer to the following website for the latest information. Consult Hitachi's sales department staff if you have any questions.

<http://www.hitachi-power-semiconductor-device.co.jp/en/>