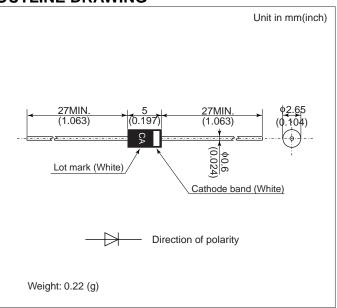




FEATURES

- High voltage rectification for office equipment.
- Diffused-junction.
- Excellent high temperature output characteristics (Small leakage current at high temperature and excellent reverse characteristics)

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

Item	Туре		DHM3P40		
Repetitive Peak Reverse Voltage*	V_{RRM}	kV	4		
Non-Repetitive Peak Reverse Voltage*	V_{RSM}	kV	4.8		
Average Forward Current	I _{F(AV)}	mA	3(15.75kHz C-Load)		
Surge(Non-Repetitive) Forward Current	I _{FSM}	А	0.5		
Operating Junction Temperature	Tj	°C	-40 ~ +120		
Storage Temperature	T _{stg}	°C	-40 ~ +120		

CHARACTERISTICS (T_C=25°C unless otherwise specified)

Item	Symbols	Units	Min.	Тур.	Max.	Test Conditions
Peak Reverse Current*	I _{RRM}	μΑ	_	_	2.0	$V_{R} = V_{RRM}$
Peak Forward Voltage	V_{FM}	V	-	-	13	I _{FM} = 5mAp
Reverse Recovery Time	trr	ns	_	_	100	I _F = 2mA, I _{RP} = 5mA, 1mA recovery

Notes *Diode tested in adequate thermal and dielectric medium.

HITACHI

Precautions for Safe Use and Notices

If semiconductor devices are handled 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.

\triangle 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)

NOTICES

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