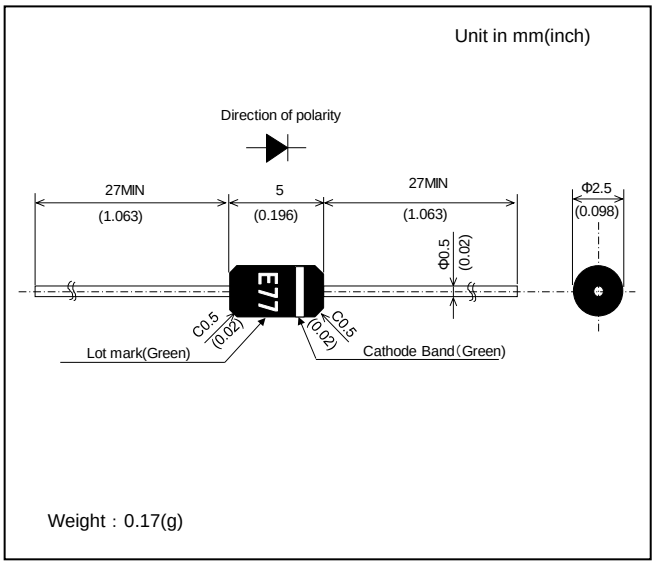
DHM30A20E

FEATURES

- For Distributor Less Ignition System.
- High voltage pulse control for ignition coil.
- Diffused-junction.
- Excellent high temperature output characteristics (Small leakage current at high temperature And excellent reverse characteristics)
- AEC-Q101qualified
- RoHS compliant
- Molding compound equivalent to UL 94 V-0
- Type of packaging 5000pcs/reel
- Lead free type (Use lead-free solder for chip connection)

OUTLINE DARWING



ABSOLUTE MAXIMUM RATINGS

Item	Type		DHM30A20E
Repetitive peak reverse voltage	V_{RRM}	kV	2
Average forward current	$I_{F(AV)}$	mA	30 (50Hz conduction)
Non-Repetitive peak forward current	I_{FSM}	A	3 (10ms conduction)
Peak Surge Reverse Current	I_{RSM}	mA	30 (Triangle wave 100μs Half-width)
Operating junction temperature	T_j	°C	+150
Storage temperature range	T_{stg}	°C	-40 ~ +150

CHARACTERISTICS (T_C=25°C unless otherwise specified)

Item	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current*	I_{RRM}	μA	—	—	5	$V_R = V_{RRM}$
Peak Forward Voltage	V_{FM}	V	—	—	5	I_{FM} = 10mAp
Reverse Breakdown Voltage	V_Z	kV	2.2	—	5	I_R=100 μ A

Notes *Diode tested in adequate thermal dielectric medium.

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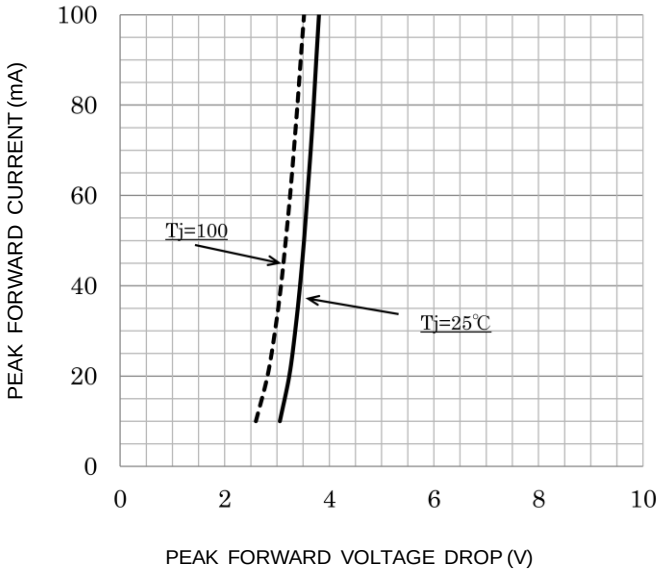
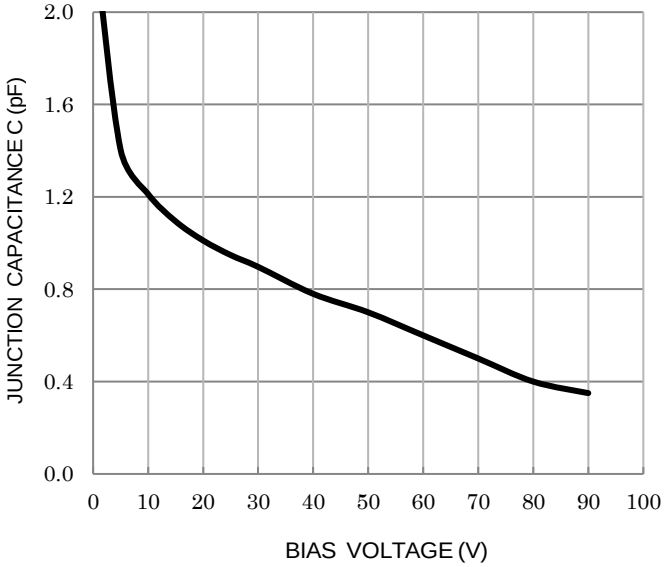
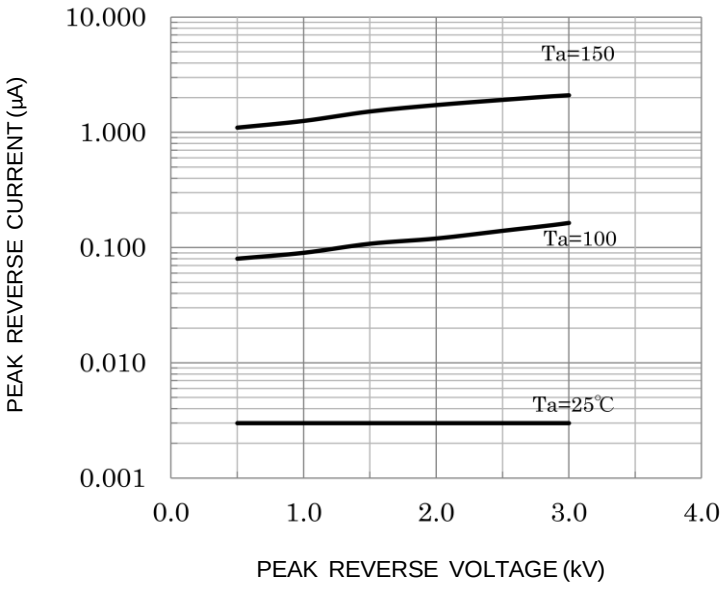
Typical Forward characteristic



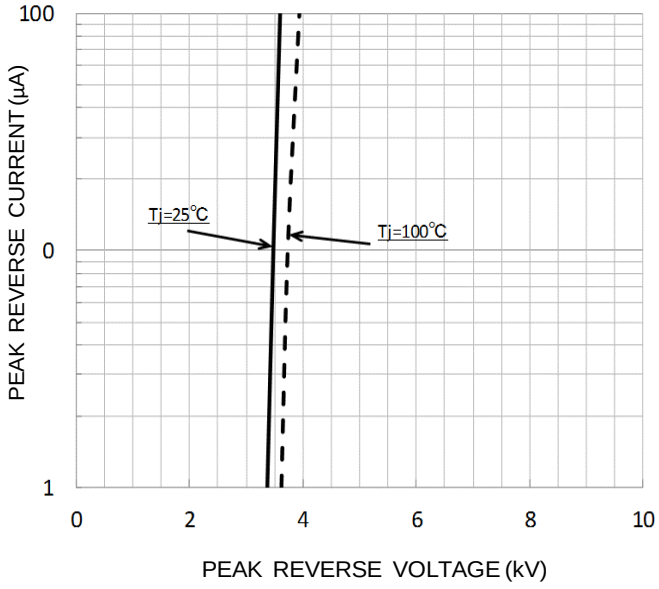
Typical Junction Capacitance



Typical Reverse Current characteristic
(Ir : 0.001μA ~ 10μA)

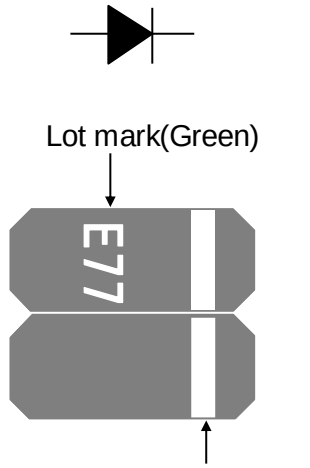


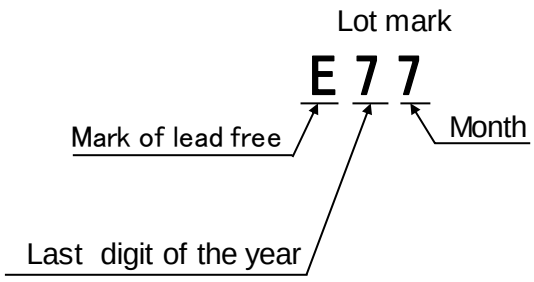
Typical Reverse Current characteristic
(Ir : 1μA ~ 100μA)



DHM30A20E

Part number description





Month	1	2	3	4	5	6	7	8	9	10	11	12
Mark	1	2	3	4	5	6	7	8	9	O	N	D

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.

⚠ 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 MPSD’s sales department staff.

(4) (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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URL : https://www.minebea-psd.com/en

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