

TOSHIBA**1DL42**

TOSHIBA HIGH EFFICIENCY RECTIFIER (HED) SILICON EPITAXIAL JUNCTION TYPE

1DL42

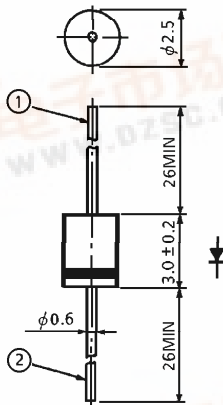
SWITCHING TYPE POWER SUPPLY APPLICATIONS

Unit in mm

- Repetitive Peak Reverse Voltage : $V_{RRM}=200V$
- Average Forward Current : $I_F(AV)=1.0A$
- Very Fast Reverse-Recovery Time : $t_{rr}=60ns$ (Max.)
- Low Forward Voltage : $V_{FM}=0.98V$
- Available to Reduce Switching Losses and Output Noise.

MAXIMUM RATINGS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Output Rectified Current	$I_F(AV)$	1.0	A
Peak One Cycle Surge Forward Current	I_{FSM}	10 (50Hz)	A
Junction Temperature	T_j	$-40 \sim 150$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$

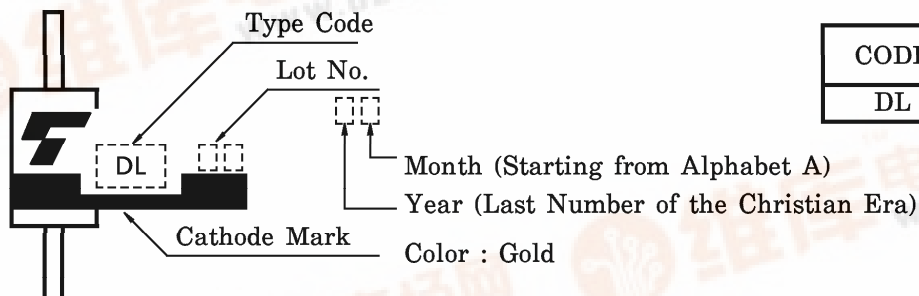
	
JEDEC	—
EIAJ	—
TOSHIBA	3-3F2A

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

Weight : 0.18g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=1.0A$	—	—	0.98	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=200V$	—	—	100	μA
Reverse Recovery Time	t_{rr}	$I_F=1A, di/dt = -20A/\mu s$	—	—	60	ns
Forward Recovery Time	t_{fr}	$I_F=1.0A$	—	—	100	ns

MARKING



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