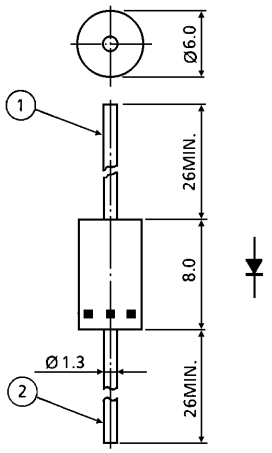
TOSHIBA HIGH EFFICIENCY RECTIFIER (HED) SILICON EPITAXIAL JUNCTION TYPE

3DL41A

SWITCHING TYPE POWER SUPPLY APPLICATIONS

Unit in mm

- Repetitive Peak Reverse Voltage : V_{RRM} = 200 V
- Average Forward Current : $I_{F\,(AV)}$ = 3.0 A
- Very Fast Reverse-Recovery Time : t_{rr} = 35 ns (Max.)
- Low Forward Voltage : V_{FM} = 0.98 V (Max.)
- Available to Raduce Switching Losses and Output Noise.



1. ANODE
2. CATHODE

JEDEC	DO-201AD
EIAJ	—
TOSHIBA	3-6E1A

Weight : 1.18 g

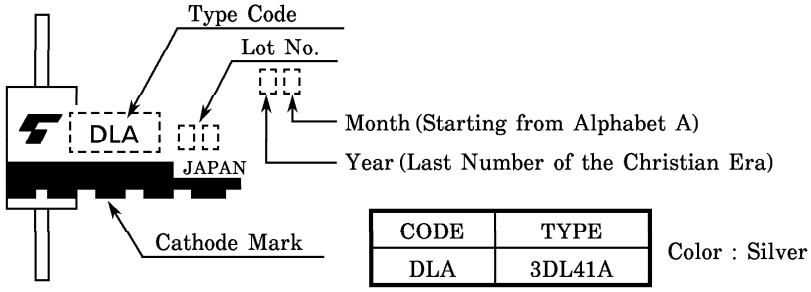
MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Forward Current	$I_{F\,(AV)}$	3.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	80 (50 Hz)	A
		88 (60 Hz)	
Junction Temperature	T_j	−40~150	°C
Storage Temperature	T_{stg}	−40~150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 3.0 A	—	—	0.98	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = 200 V	—	—	100	μA
Reverse Recovery Time	t_{rr}	I_F = 1 A, di / dt = −30 A / μs	—	—	35	ns
Forward Recovery Time	t_{fr}	I_F = 1.0 A	—	—	100	ns
Thermal Resistance	$R_{th\,(j\text{-}a)}$	Junction to Ambient	—	—	57	°C / W
Thermal Resistance	$R_{th\,(j\text{-}\ell)}$	Junction to Lead	—	—	18	°C / W

MARKING

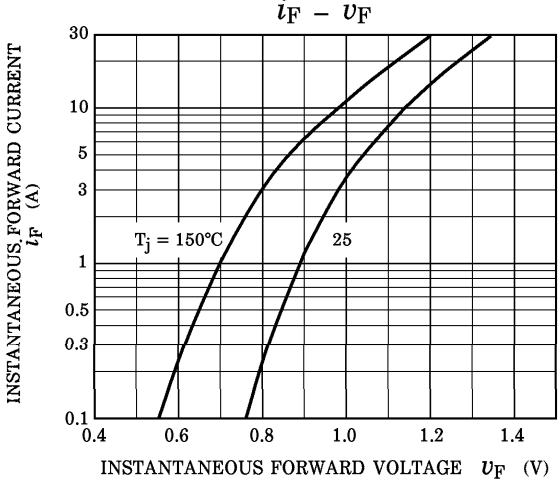


CODE	TYPE
DLA	3DL41A

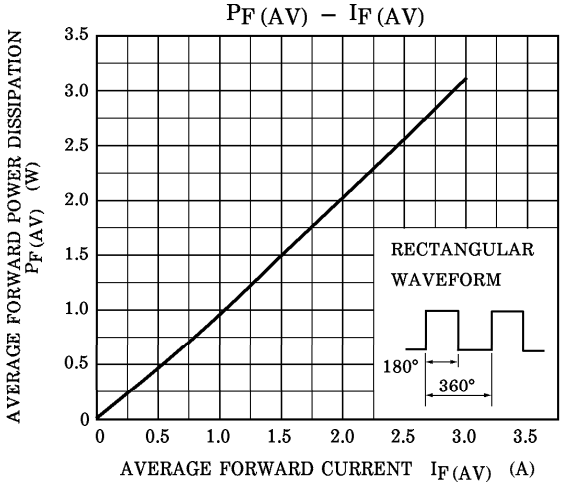
Color : Silver

961001EAA2

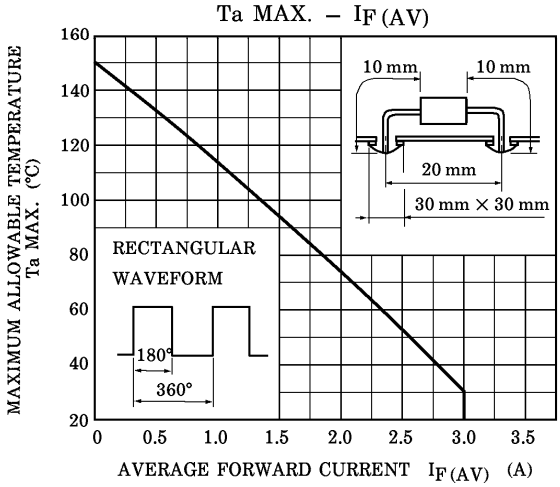
$i_F - v_F$



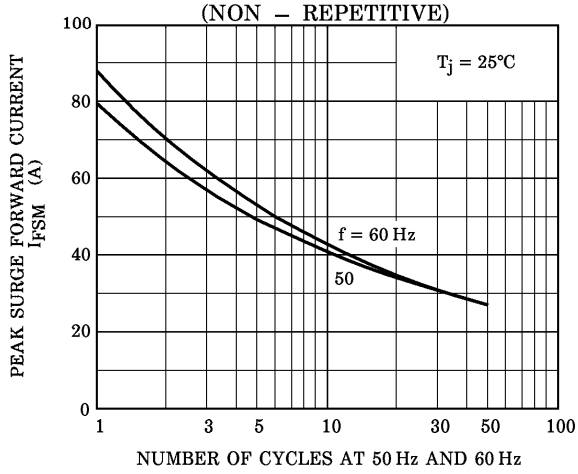
$P_{F(AV)} - I_{F(AV)}$



Ta MAX. – $I_{F(AV)}$



SURGE FORWARD CURRENT
(NON – REPETITIVE)



$r_{th(j-a)} - t$