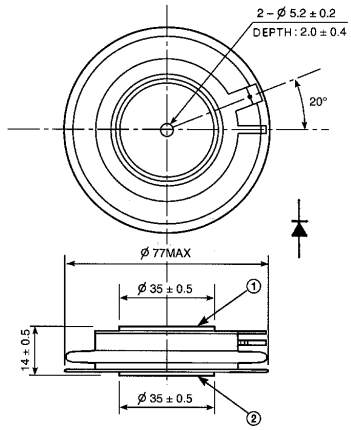
TOSHIBA ALLOY-FREE RECTIFIER

800EXD29, 800FXD29

RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage : V_{RRM} = 2500~3000V
- Average Forward Current : $I_{F(AV)}$ = 800A
- Flat Package

Unit in mm



1. CATHODE
2. ANODE

JEDEC	—
EIAJ	—
TOSHIBA	3-77A1A

Weight : 220g

MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	800EXD29	V_{RRM}	2500	V
	800FXD29		3000	
Non-Repetitive Peak Reverse Voltage (Non-Repetitive ≦5ms, T_j = 0~150°C)	800EXD29	V_{RSM}	2750	V
	800FXD29		3300	
Average Forward Current		$I_{F(AV)}$	800	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	12800 (50Hz)	A
			14000 (60Hz)	
Junction Temperature Range		T_j	−40~150	°C
Storage Temperature Range		T_{stg}	−40~150	°C
Screw Torque		—	14.7±1.5	kN

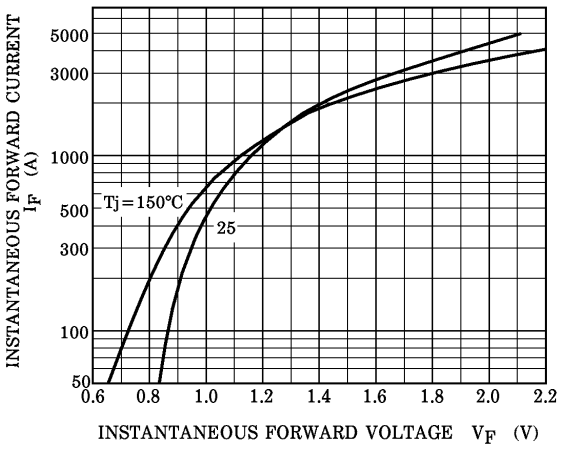
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = Rating voltage, T_j = 150°C	—	30	mA
Peak Forward Voltage	V_{FM}	I_{FM} = 2500A, T_j = 25°C	—	1.55	V
Thermal Resistance (Junction to Case)	$R_{th(j-f)}$	DC	—	0.04	°C / W

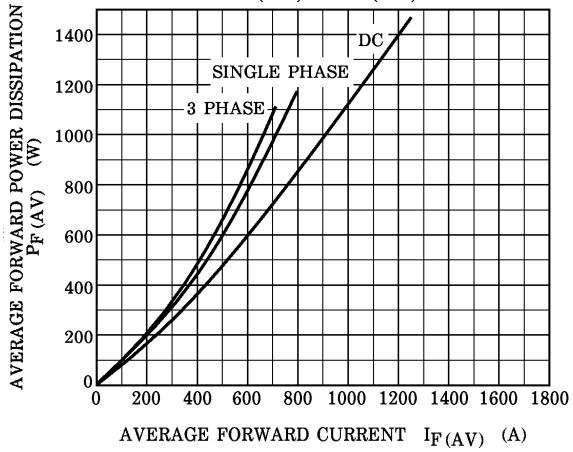
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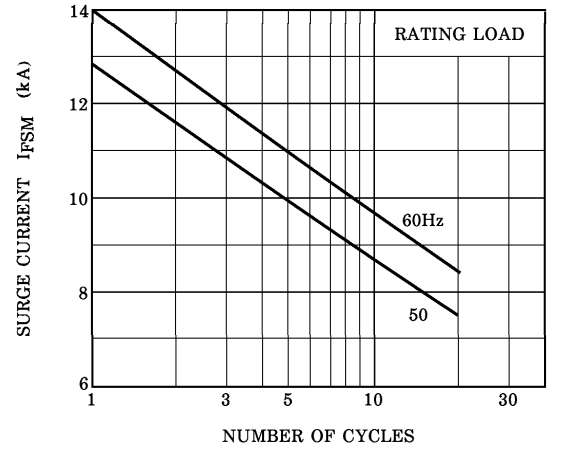
$I_F - V_F$



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



SURGE CURRENT



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

