

特征 Features ■ 超快恢复时间 Ultrafast Recovery Time ■ 软恢复特性 Soft Recovery Characteristics ■ 低回路损耗 Low Recovery Loss ■ 低正向电压 Low Forward Voltage ■ 高浪涌电流 High Surge Current Capability ■ 低漏电流 Low Leakage Current	应用 APPLICATIONS ■ 无损耗缓冲电路 Freewheeling, Snubber, Clamp ■ 逆变焊机 Inversion Welder ■ 功率因数校正 PFC ■ 电镀电源 Plating Power Supply ■ 超声波清洗机、电焊机 Ultrasonic Cleaner and Welder ■ 转换器、斩波器 Converter & Chopper ■ 不间断电源 UPS
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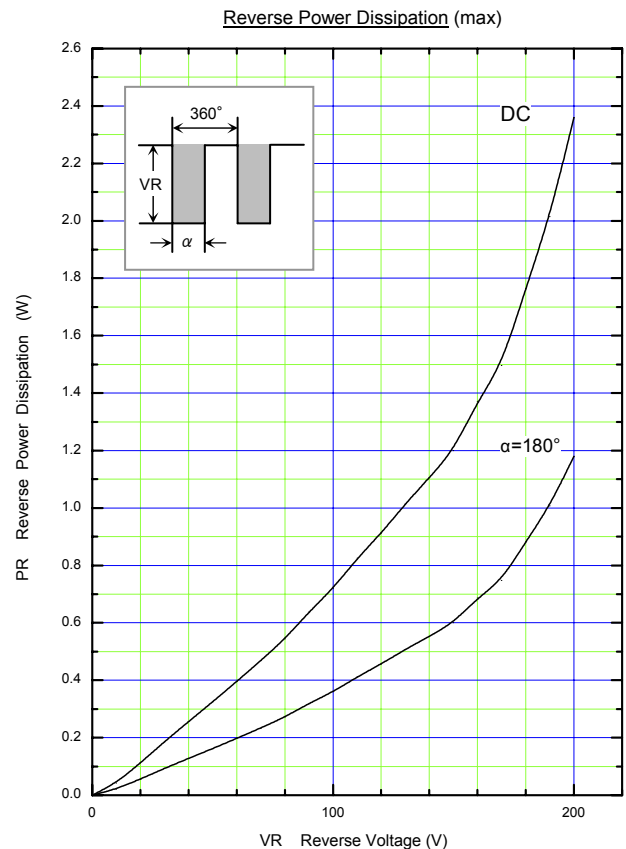
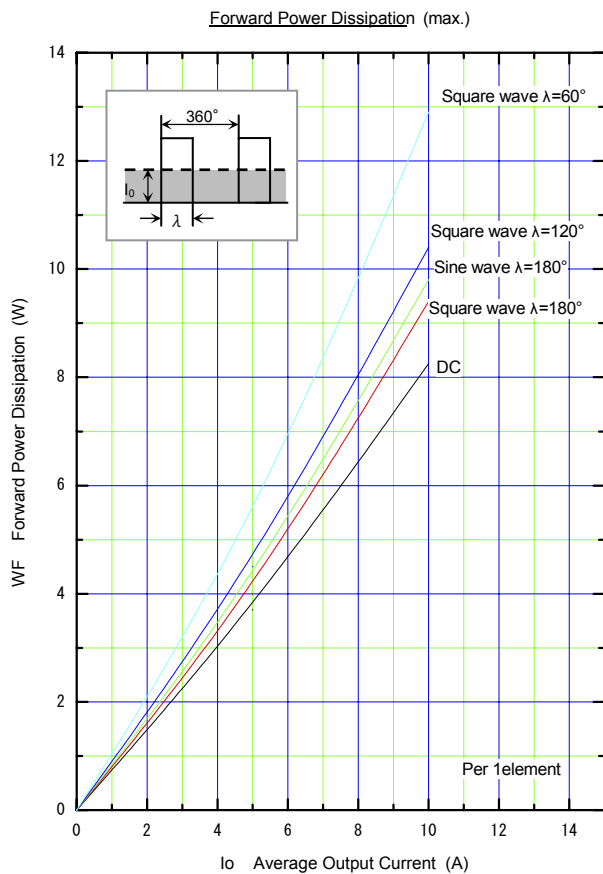
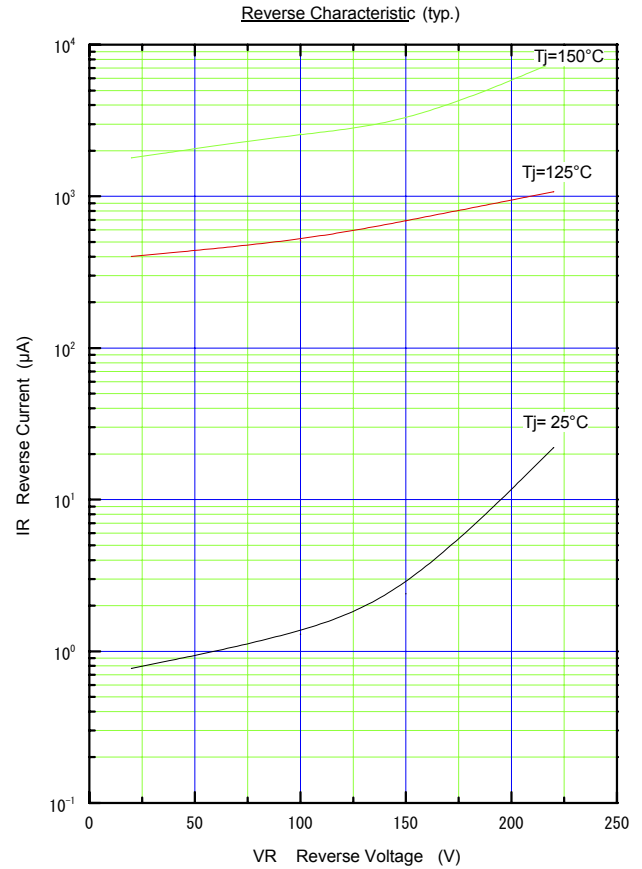
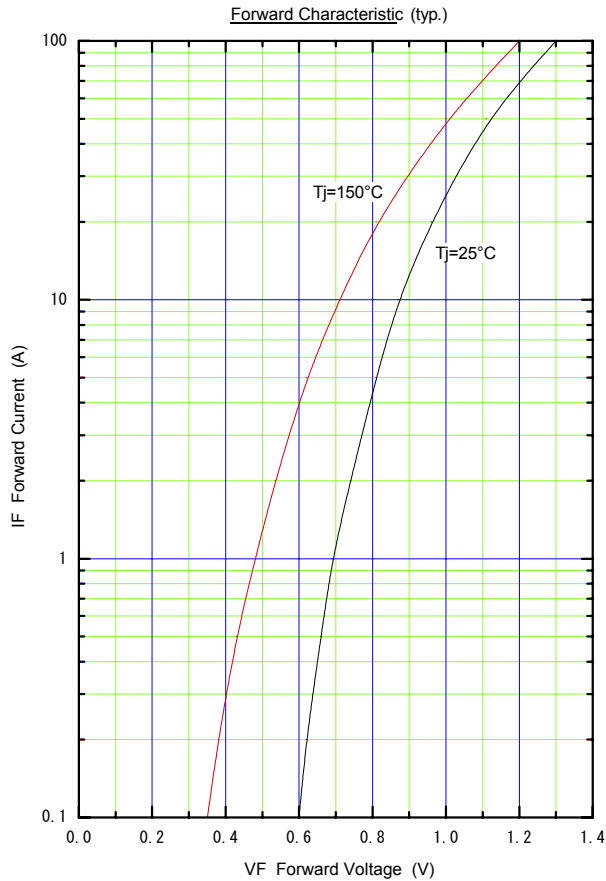
■ ABSOLUTE MAXIMUM RATINGS ($T_C=25^{\circ}\text{C}$ unless otherwise specified)

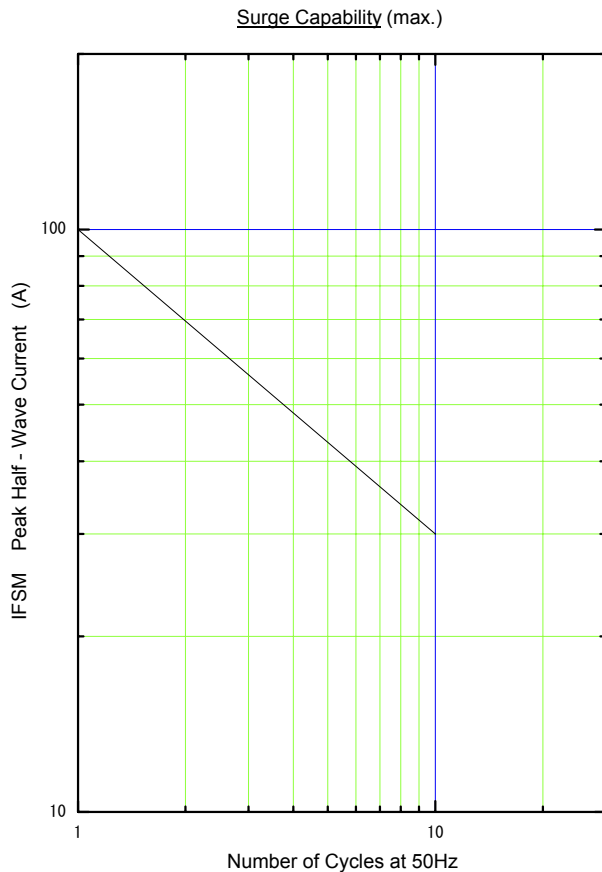
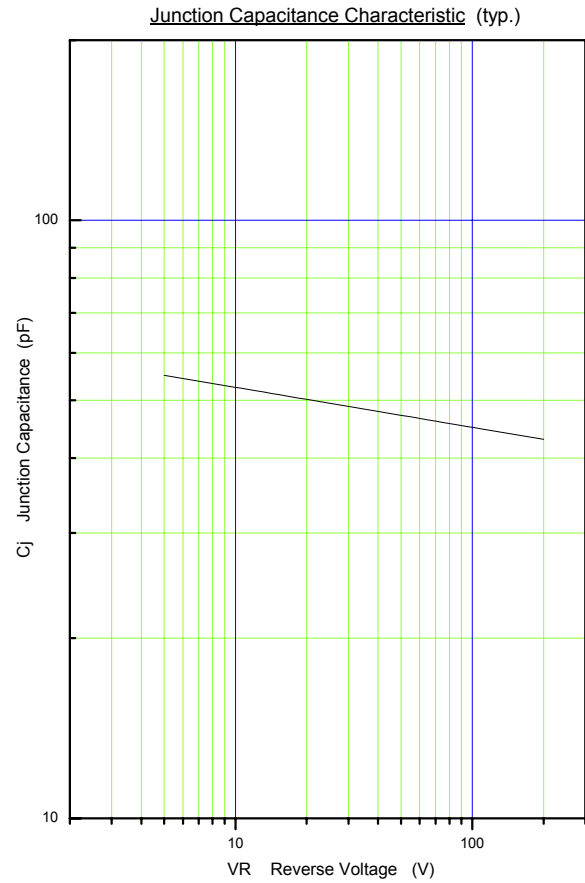
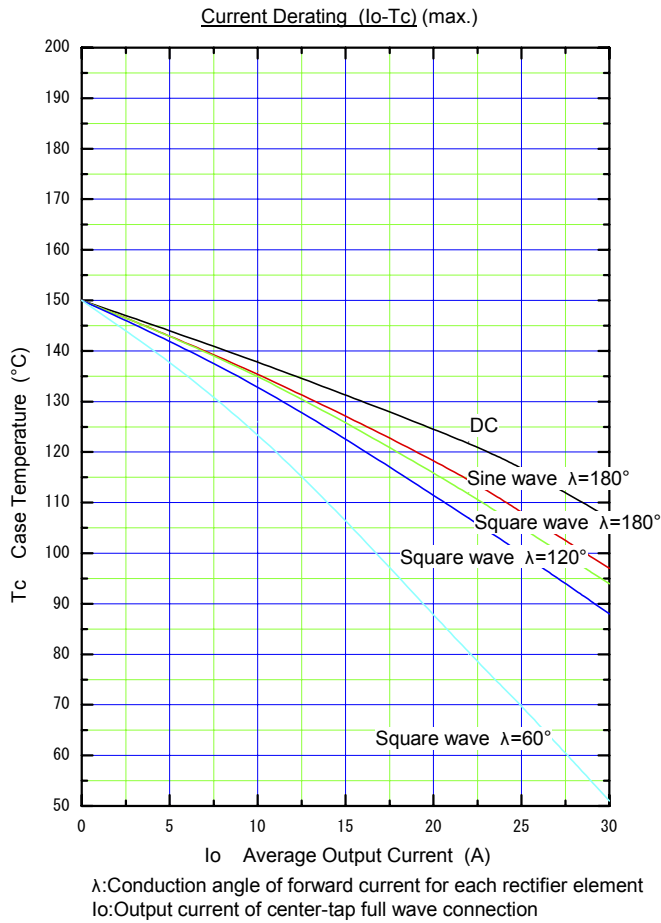
Symbol	Parameter	Test Conditions	Values	Unit
V_R	Maximum D.C. Reverse Voltage		220	V
V_{RRM}	Maximum Repetitive Reverse Voltage		220	
$I_{F(AV)}$	Average Forward Current	$T_C=110^{\circ}\text{C}$, Per Diode	10	A
		$T_C=110^{\circ}\text{C}$, Per Package	20	
$I_{F(RMS)}$	RMS Forward Current	$T_C=110^{\circ}\text{C}$, Per Diode	14	
I_{FSM}	Non-Repetitive Surge Forward Current	$T_J=45^{\circ}\text{C}$, $t=10\text{ms}$, 50Hz, Sine	100	
P_D	Power Dissipation		83	W
T_J	Junction Temperature		-40~+150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range		-40~+150	
Torque	Module-to-Sink	Recommended	1.1	N·m
$R_{\theta JC}$	Thermal Resistance	Junction-to-Case	1.5	$^{\circ}\text{C}/\text{W}$
Weight			6.0	g

■ ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{RM}	Reverse Leakage Current	$V_R=220\text{V}$	--	--	50	μA
		$V_R=220\text{V}$, $T_J=125^{\circ}\text{C}$	--	--	1	mA
I_{RRM}	Max. Reverse Recovery Current	$V_R=100\text{V}$, $I_F=10\text{A}$ $di_F/dt = -200\text{A}/\mu\text{s}$	$T_J=25^{\circ}\text{C}$	2.1	--	A
			$T_J=125^{\circ}\text{C}$	5	--	
V_F	Forward Voltage	$I_F=10\text{A}$	--	0.86	0.95	V
		$I_F=10\text{A}$, $T_J=125^{\circ}\text{C}$	--	--	0.80	
t_{rr}	Reverse Recovery Time	$I_F=1\text{A}$, $V_R=30\text{V}$, $di_F/dt=-200\text{A}/\mu\text{s}$	--	25	--	ns
		$V_R=100\text{V}$, $I_F=10\text{A}$ $di_F/dt = -200\text{A}/\mu\text{s}$	$T_J=25^{\circ}\text{C}$	32	--	
			$T_J=125^{\circ}\text{C}$	45	--	

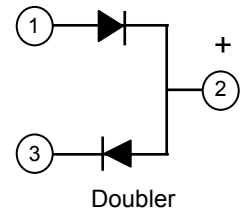
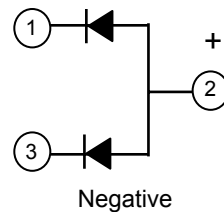
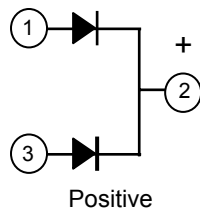
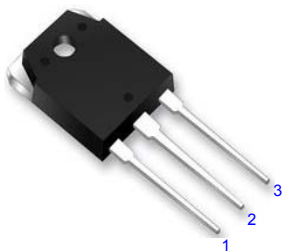
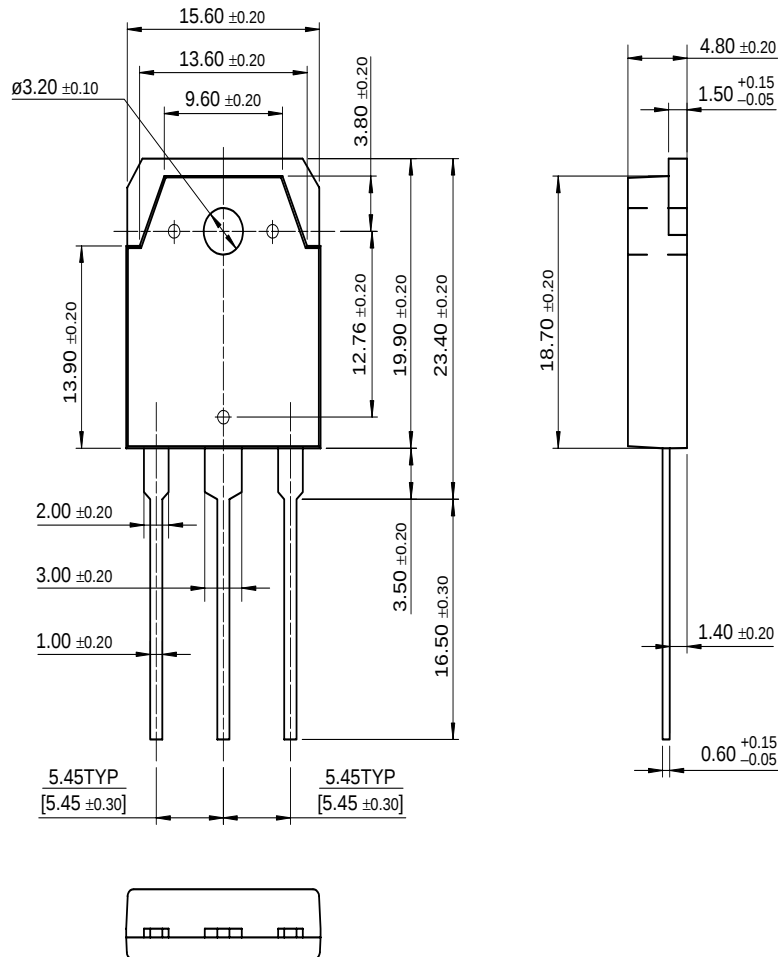
Pulse Test: Pulse Width = 300 μs , Duty Cycle $\leq 2.0\%$.





MECHANICAL DATA TO-3P (TO-247)
Package Dimensions Dimensions in millimeters

TO-3P



TO-3P (TO-2247)

无铅环保封装 Lead-free package

包装规格: 管装、盒装, 每管30只, 每盒450只, 每箱3600只

Packaging specifications: 30Pcs/Tub, 450Pcs/BOX, 3600Pcs/Cartons



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