

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

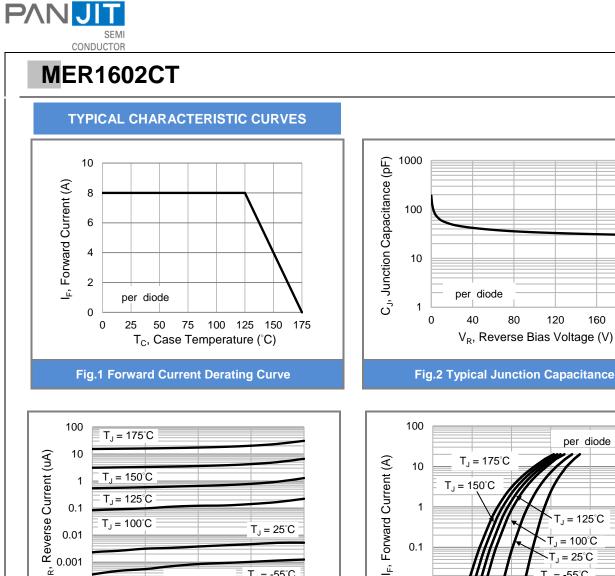
PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		Vrrm	200	V
Maximum RMS Voltage		V _{RMS}	140	V
Maximum DC Blocking Voltage		V _{DC}	200	V
Maximum Average Forward Current	per device	IF(AV)	16	
	per diode		8	A
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load Per Diode		IFSM	120	А
Typical Junction Capacitance		CJ	00	- F
Measured at 1 MHZ And Applied $V_R = 4 V$			80	pF
Typical Thermal Resistance Per Diode	(Note 1)	Rejc	2	
	(Note 1)	Rejl	2.5	°C/W
Operating Junction Temperature Range	TJ	-55~175	°C	
Storage Temperature Range		Tstg	-55~175	°C



PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage Per Diode	VF	I _F = 2 A, T _J = 25 °C	-	0.77	-	V
		I _F = 4 A, T _J = 25 °C	-	0.83	-	V
		I _F = 8 A, T _J = 25 °C	-	-	0.95	V
		I _F = 2 A, T _J = 125 °C	-	0.63	-	V
		I _F = 4 A, T _J = 125 °C	-	0.7	-	V
		I⊧ = 8 A, TJ = 125 °C	-	0.8	-	V
Reverse Current Per Diode	I _R	V _R = 160 V, T _J = 25 °C	-	0.004	-	uA
		$V_R = 200 V, T_J = 25 \circ C$	-	-	1	
		V _R = 200 V, T _J = 125 °C	-	-	75	
Reverse Recovery Time	T _{RR}	$I_F = 0.5 A, I_R = 1 A,$	-	-	35	ns
		I _{RR} = 0.25 A, T _J = 25 °C				
Reverse Recovery Time	T _{RR}	I _F = 8 A, V _R = 200 V	-	28	-	ns
Peak Recovery Current	IRRM	di/dt = 300 A/uS	-	6.5	-	А
Reverse Recovery Charge	Q _{RR}	T」 = 25 ℃	-	96	-	nC
Reverse Recovery Time	T _{RR}	I _F = 8 A, V _R = 200 V	-	43	-	ns
Peak Recovery Current	IRRM	di/dt = 300A/uS	-	10	-	А
Reverse Recovery Charge	Qrr	T _J = 125 °C	-	216	-	nC

NOTES :

1. Device mounted on a infinite heatsink.



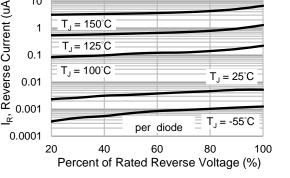
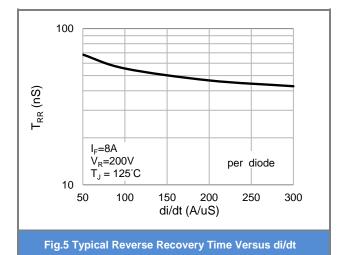


Fig.3 Typical Reverse Characteristics



V_F, Forward Voltage (V) **Fig.4 Typical Forward Characteristics**

0.6

T_{.1} = -55°C

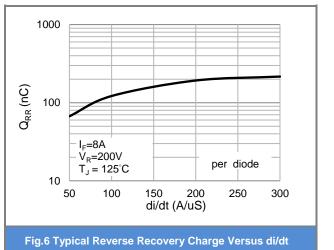
1.2

0.9

160

200

1.5



MER1602CT-REV.00

0.01

0

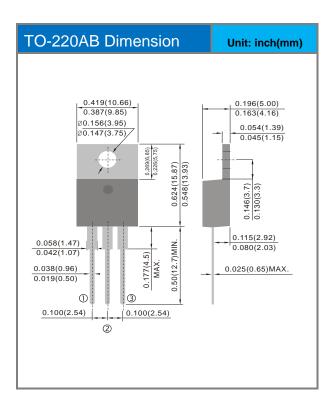
0.3



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MER1602CT_T0_00601	TO-220AB	50pcs / Tube	MER1602CT	Halogen free RoHS compliant

Packaging Information





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