



MBR2040C

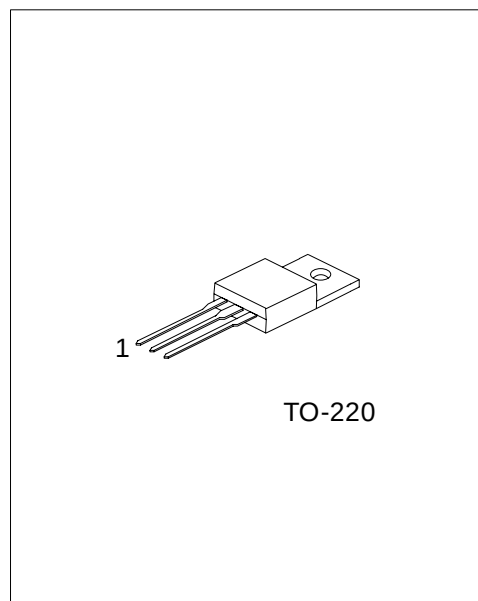
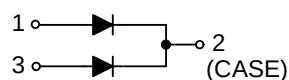
DIODE

SCHOTTKY BARRIER RECTIFIER DIODES

■ FEATURES

- * Guard Ring for Transient Protection
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * High Current Capability and Low Forward Voltage Drop

■ SYMBOL



*Pb-free plating product number: MBR2040CL

■ ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
MBR2040C-TA3-T	MBR2040CL-TA3-T	TO-220	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

MBR2040CL-TA3-T	(1)Packing Type (2)Package Type (3)Lead Plating	(1) T: Tube (2) TA3: TO-220 (3) L: Lead Free Plating Blank: Pb/Sn
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■ ELECTRICAL CHARACTERISTICS RATINGS (Ta=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	40	V
Maximum non-repetitive Peak Reverse Voltage		V_{RM}	40	V
Maximum DC Blocking Voltage		V_R	40	V
Maximum PMS Reverse Voltage		$V_{R(RMS)}$	28	V
Average Rectified Output Current (T _C =125°C) (Note 1)		I_{OUT}	20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave		I_{FSM}	150	A
Forward Voltage Drop	$I_F=20A, T_C=25^{\circ}C$	V_{FM}	0.84	V
	$I_F=20A, T_C=125^{\circ}C$		0.72	V
	$I_F=10A, T_C=25^{\circ}C$		0.70	V
	$I_F=10A, T_C=125^{\circ}C$		0.57	V
Peak Reverse Current at Rated DC Blocking Voltage	T _C = 25°C	I_{RM}	0.1	mA
	T _C =125°C		15	mA
Typical Junction Capacitance (Note 2)		C_J	650	pF
Operating Temperature		T_J	-65 ~ +150	°C
Storage Temperature		T_{STG}	-65 ~ +150	°C

Notes: 1. Thermal resistance junction to case mounted heat sink.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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