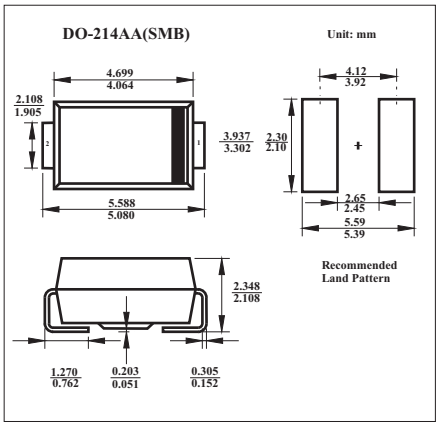
Surface Mount Schottky Barrier Rectifiers

B240



Features

Ideally Suited for Automatic Assembly

Low Power Loss, High Efficiency

Surge Overload Rating to 50A Peak

For Use in Low Voltage, High Frequency

Inverters, Free Wheeling, and Polarity

Protection Application

Absolute Maximum Ratings and Electrical Characteristics Ta = 25℃

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Output Current	I_O	2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50	A
Forward Voltage @I_F = 2.0A	V_F	0.5	V
Peak Reverse Current At Rated DC Blocking Voltage *1 @T_A = 25℃ @T_A = 100℃	I_R	0.5 20	mA
Typical Total Capacitance *2	C_T	200	pF
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	55	℃/W
Operating and Storage Temperature Range	T_j.T_{STG}	-65 to150	℃

1. Pulse width 300μs, duty cycle 2%.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.