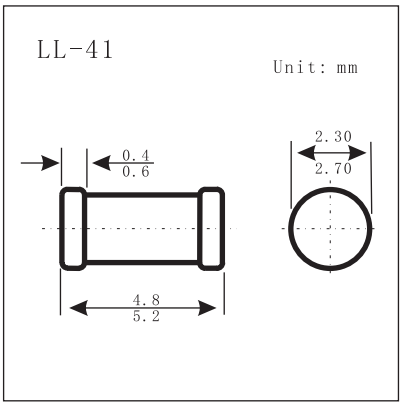
Surface Mount Schottky Barrier Rectifiers

KLL5817 - KLL5819



■ Features

- Surge Overload Ratings to 25 Amperes Peak
- Ideal for Printed Circuit Board
- Reliable Low Cost Construction Utilizing Molded Plastic Technique Results in Inexpensive Product

■ Maximum Ratings and Electrical Characteristics @ Ta = 25℃

Parameter	Symbol	Rating			Unit
		KLL5817	KLL5818	KLL5819	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Maximum Average Forward Rectified Current @T_L = 90℃	$I_{(AV)}$	1.0			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	25			A
Maximum DC Reverse Current @ T_A = 25℃	I_R	1.0			mA
at Rated DC Blocking Voltage @ T_A = 100℃		10			
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	0.45	0.55	0.60	V
@ 3.0A		0.75	0.875	0.90	
Typical Junction Capacitance (*1)	C_J	110			pF
Typical Thermal Resistance (*2)	$R_{\theta JA}$	80			℃/W
Operating and Storage Temperature Range	T_j,T_{STG}	-65 to +125 / -65 to +150			℃

*1. Measured at 1MHz and Applied Reverse Voltage of 4.0 Volts D.C.

*2. Thermal Resistance Junction to Ambient.