



TO-277 Plastic-Encapsulate Transistors

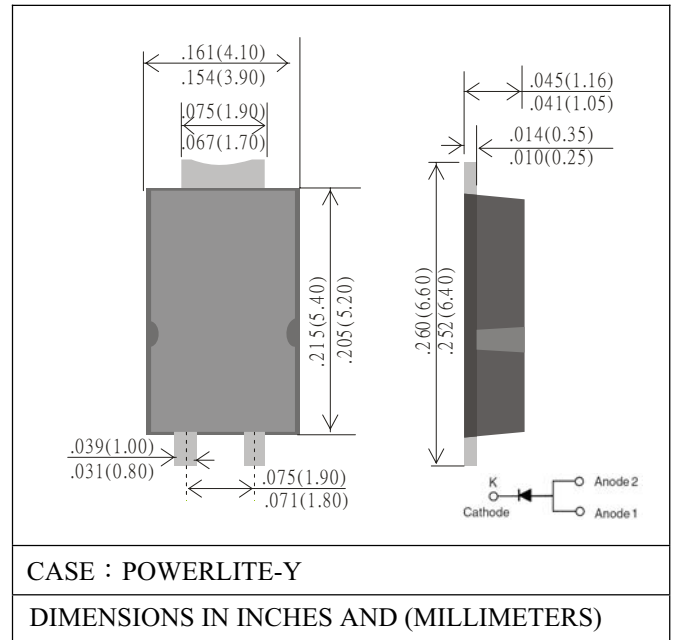
CJ10L45G 10A SCHOTTKY BARRIER RECTIFIERS

FEATURES

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- BOTH PB FREE AND HALOGEN FREE ARE AVAILABLE

MECHANICAL DATA

- CASE : TRANSFER MOLDED
- LEADS : SOLDERABLE PER MIL-STD-202,METHOD 208
- POLARITY : AS MARKED



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS:

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.			
PARAMETER	SYMBOL	CJ10L45G-YL	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	45	V
MAXIMUM RMS VOLTAGE	V_{RMS}	32	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	45	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT	I_O	10	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	I_{FSM}	280	A
TYPICAL THERMAL RESISTANCE	$R_{\theta JA}$	30	°C/W
	$R_{\theta JC}$	3.0	
STORAGE TEMPERATURE RANGE	T_{STG}	- 65 TO + 150	°C
OPERATING TEMPERATURE RANGE	T_J	- 65 TO + 150	°C

ELECTRICAL CHARACTERISTICS (AT TA =25°C UNLESS OTHERWISE NOTED)					
PARAMETER		SYMBOL	TYP.	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE AT 10A	$I_F = 8A, T_J = 25°C$	V_F	-	0.42	V
	$I_F = 10A, T_J = 25°C$		0.42	0.47	
	$I_F = 10A, T_J = 125°C$		0.38	0.41	
MAXIMUM DC REVERSE CURRENT (NOTE 1)	$V_R = 45V, T_J = 25°C$	I_R	0.05	03	mA
	$V_R = 45V, T_J = 100°C$		-	15	

NOTES : 1. PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE

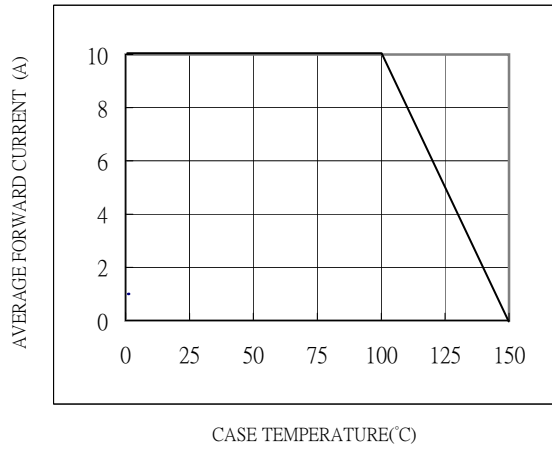


Fig.1-FORWARD CURRENT DERATING CURVE

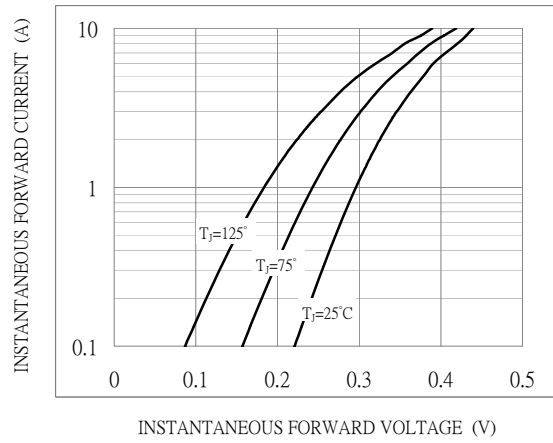


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

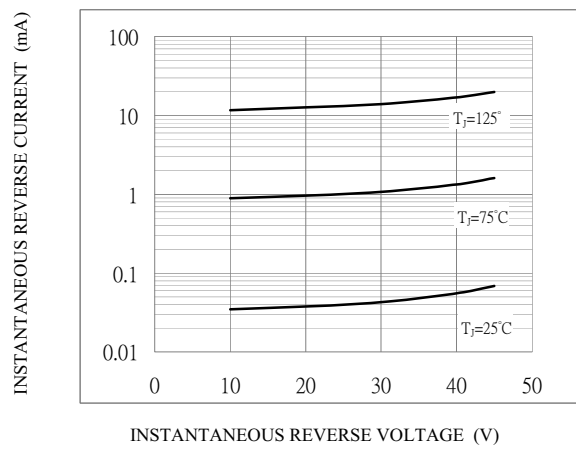


Fig.3-TYPICAL REVERSE CHARACTERISTICS

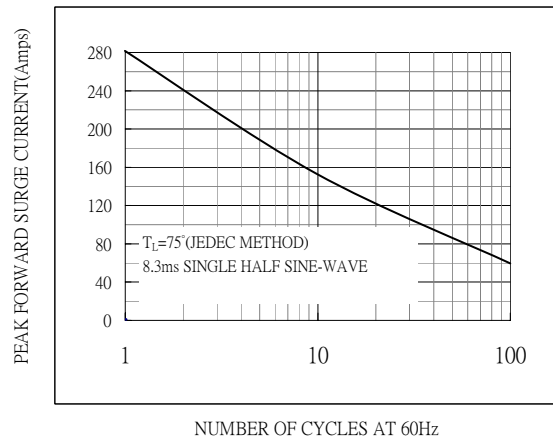


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT