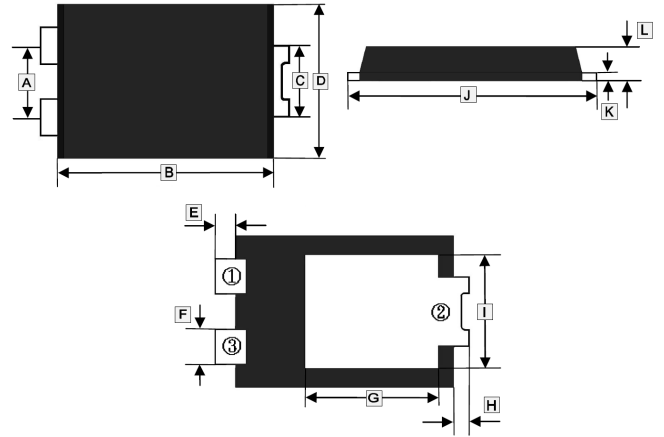


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Schottky Barrier chip
- High thermal reliability
- Patented Super Barrier Rectifier Technology
- High forward surge capability
- Ultra low power loss and high efficiency
- Excellent high temperature stability
- Plastic material-UL flammability 94V-0

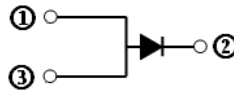
TO-277D



PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-277D	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.65	1.95	G	3.25	3.85
B	5.3	5.5	H	0.45	0.65
C	1.7	1.9	I	2.9	3.2
D	3.8	4.2	J	6.4	6.6
E	0.45	0.65	K	0.3	0.45
F	0.8	1.0	L	1.0	1.2



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RSM}	200	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	I_F	15	A
Peak Forward Surge Current, 8.3 ms single half sine-wave	I_{FSM}	250	A
Voltage Rate of Change (Rated V_R)	dv/dt	10000	V / μs
Typical Thermal Resistance	$R_{\theta JA}$	80	°C / W
Typical Thermal Resistance	$R_{\theta JL}$	3.5	°C / W
Operating and Storage Temperature Range	T_J, T_{STG}	-40~150	°C

ELECTRICAL CHARACTERISTICS

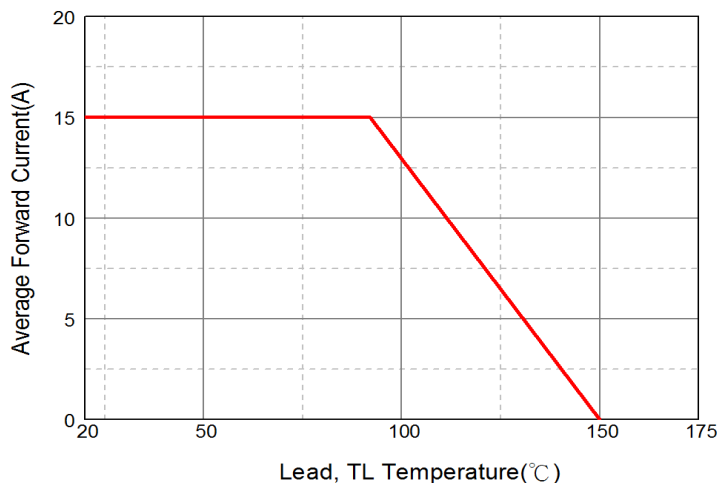
Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V_F	0.67	-	V	$I_F = 3A, T_J = 25^\circ C$
		0.81	0.85		$I_F = 10A, T_J = 25^\circ C$
		0.9	1.1		$I_F = 15A, T_J = 25^\circ C$
		0.73	-		$I_F = 15A, T_J = 125^\circ C$
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	I_R	-	0.2	mA	$T_J = 25^\circ C$
		-	20		$T_J = 100^\circ C$
Typical Junction Capacitance ¹	C_J	310	-	pF	

NOTES:

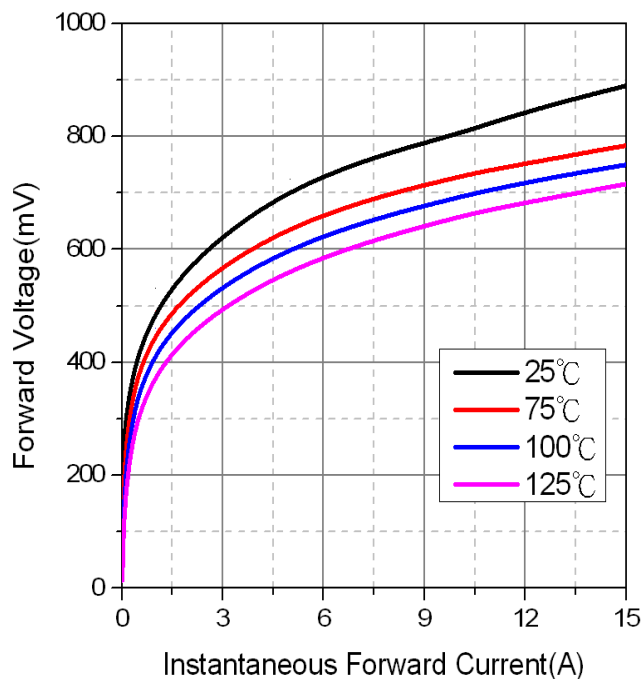
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Pulse Test : Pulse Width = 300 μs , Duty Cycle \leq 2.0%.

RATINGS AND CHARACTERISTIC CURVES

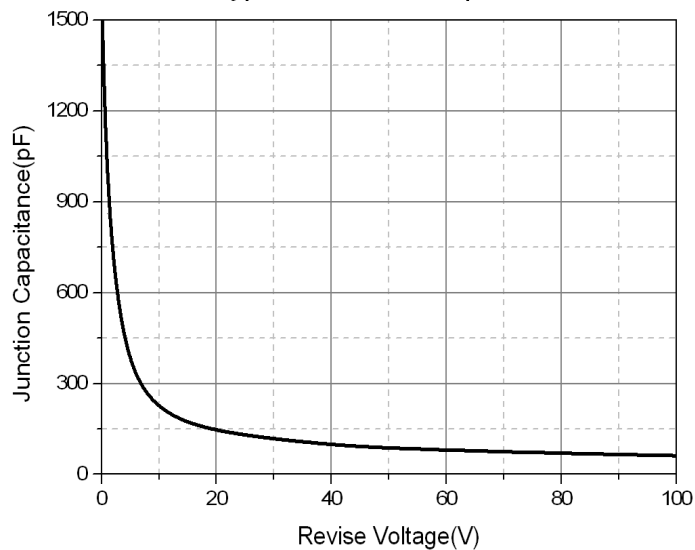
Typical Forward Current Derating Curve



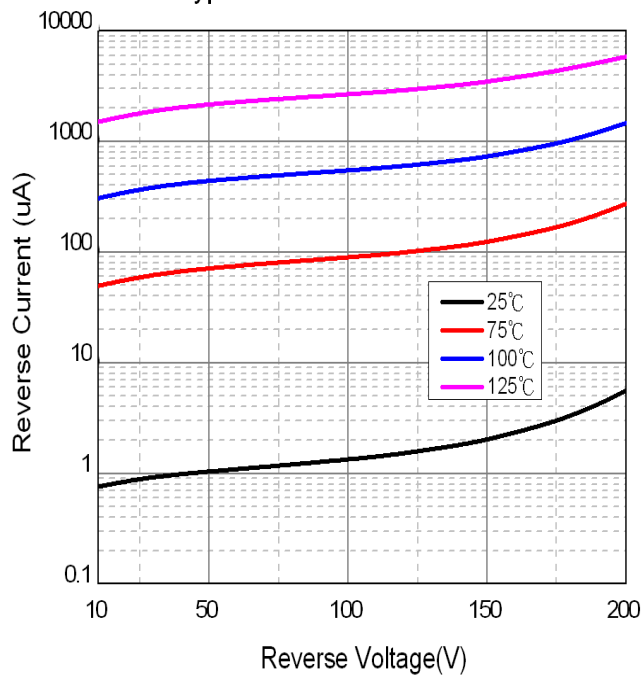
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non-Repetitive Forward Surge Current

