



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
VOLTAGE 40 Volts CURRENT 0.75 Ampere

CH651H-40PT

APPLICATION

- * For low-loss, fast-recovery, meter protection, bias isolation and clamping applications

FEATURE

- * Small surface mounting type. (SC-76/SOD-323)
- * Low IR. (IR=50uA Max.)
- * Medium current Schottky rectifier diode
- * Miniature plastic package for surface mounting (SMD)
- * Total power dissipation, Ptot= 600 mW @ TS = 66 °C.

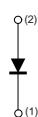
CONSTRUCTION

- * Silicon epitaxial planar

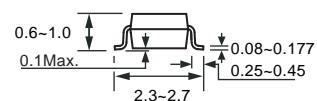
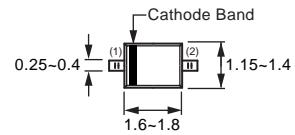
MARKING

- * JT

CIRCUIT



SC-76/SOD-323



Dimensions in millimeters

SC-76/SOD-323

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	CH651H-40PT			UNITS
		MIN.	TYP.	MAX.	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	-	-	40	Volts
Maximum RMS Voltage	V _{RMS}	-	-	28	Volts
Maximum DC Blocking Voltage	V _{DC}	-	-	40	Volts
Maximum Average Forward Rectified Current	I _O	-	-	0.75	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I _{FSM}	-	-	2.5	Amps
Typical Junction Capacitance between Terminal (Note 1)	C _J	-	8.4	12	pF
Maximum Operating Temperature Range	T _J	-	-	+150	°C
Storage Temperature Range	T _{STG}	-65	-	+150	°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

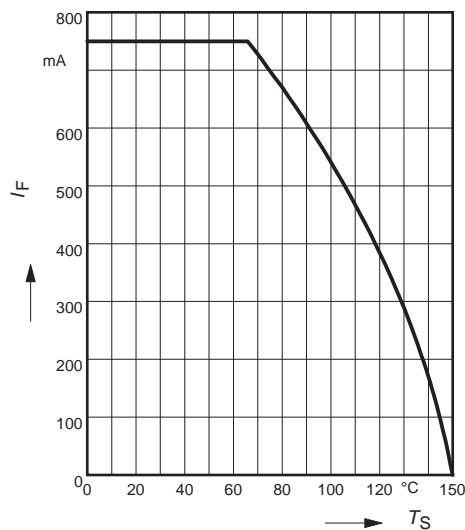
CHARACTERISTICS	SYMBOL	CH651H-40PT			UNITS
		MIN.	TYP.	MAX.	
Maximum Instantaneous Forward Voltage at I _F = 10mA I _F = 100mA I _F = 200mA I _F = 750mA	V _F	-	0.305	0.4	Volts
		-	0.38	-	
		-	0.44	0.7	
		-	0.58	-	
Maximum Average Reverse Current at V _R = 30V ,TA = 25°C V _R = 30V ,TA = 65°C	I _R	-	-	50	uAmps
		-	-	900	

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 10.0 volts.
2. ESD sensitive product handling required.

2002-6

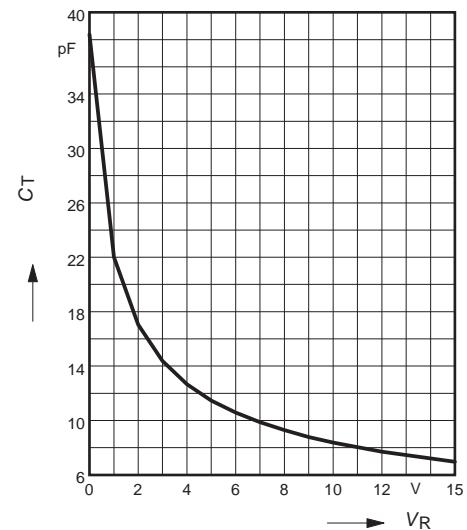
RATING CHARACTERISTIC CURVES (CH651H-40PT)

Forward current $I_F = f(T_S)$



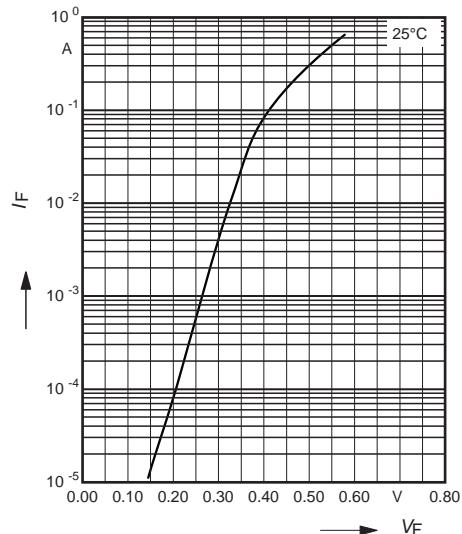
Diode capacitance $C_T = f(V_R)$

$f = 1\text{MHz}$



Forward current $I_F = f(V_F)$

T_A = parameter



Reverse current $I_R = f(V_R)$

T_A = Parameter

