CL36AG

Chip Integration Technology Corporation

3A Surface Mount Trench Schottky Rectifier

Main Product Characteristics

$I_{F(AV)}$	3A
V_{RRM}	60V
T_J	150°C
$V_{F(Typ)}$	0.42V

■ Features

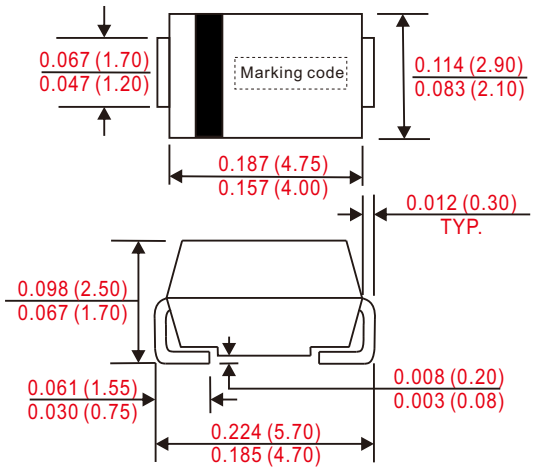
- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-214AC / SMA
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : Approximated 0.08 gram

■ Outline

SMA(DO-214AC)



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Conditions	Symbol	CL36AG	UNIT
Working peak reverse voltage		V_{RWM}	60	V
Forward rectified current		I_O	3	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	60	A
Typical Thermal resistance (per leg)	Junction to case	$R_{\theta JC}$	25	°C/W
	Junction to ambient	$R_{\theta JA}$	70	°C/W
Storage temperature		T_{STG}	-55 ~ +150	°C
Junction temperature		T_J	-55 ~ +150	°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	I_F = 3A, T_J = 25°C	V_F		490	550	mV
	I_F = 3A, T_J = 125°C			420		
Reverse current	V_R = 60V T_J = 25°C	I_R		0.002	0.1	mA
	V_R = 60V T_J = 125°C			2	20	
Reverse Breakdown Voltage(per diode)	I_F = 0.1A, T_J = 25°C	V_{BR}	60			V

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Revision : C

■ Rating and characteristic curves

Fig. 1 - Forward Characteristics

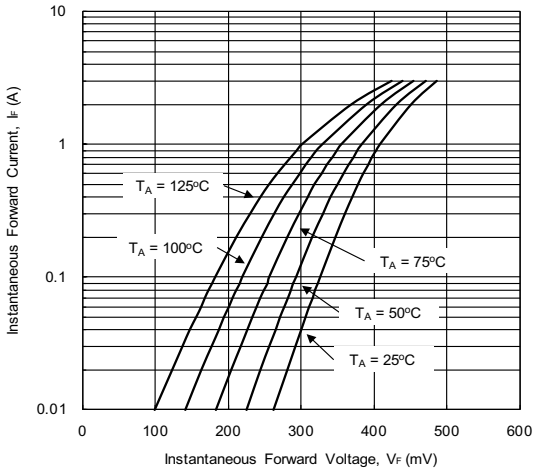


Fig. 2 - Reverse Characteristics

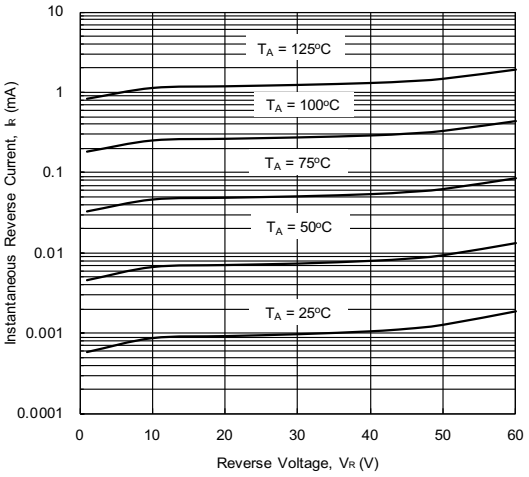


Fig. 3 - Forward Power Dissipation

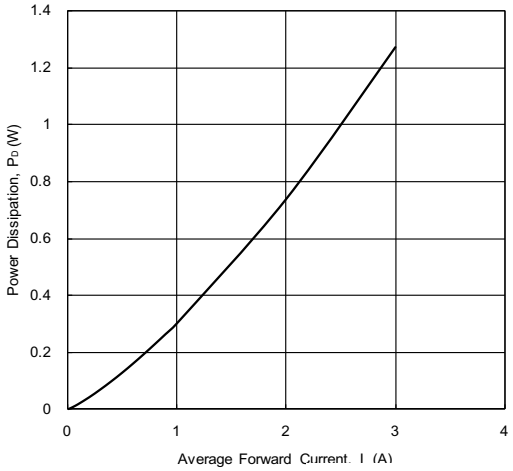


Fig. 4 - Forward Current Derating Curve

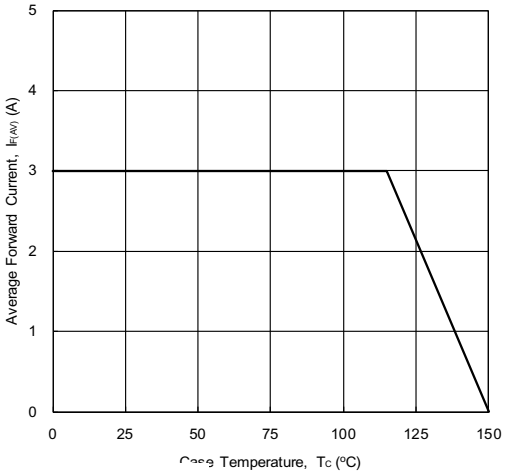
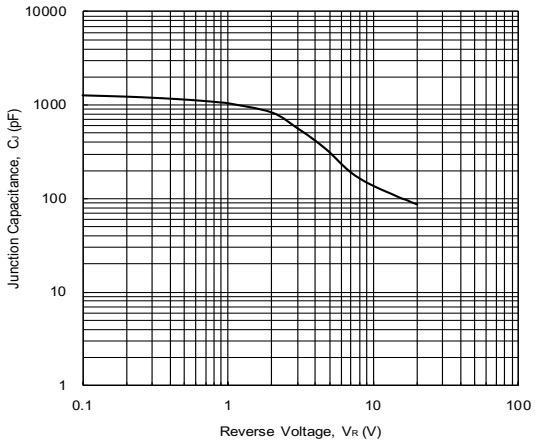


Fig. 5 - Junction Capacitance



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Revised Date : 2016/06/03
Revision : C

■ Marking Information



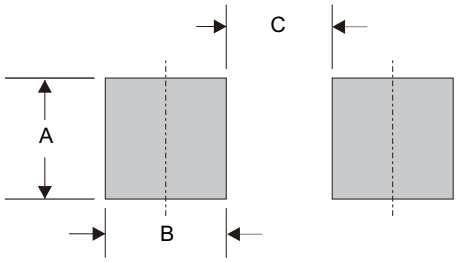
CL36 : Product type marking code

■ Ordering / Packing Information

	Part number	Case	Q'TY/Reel (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
HF Halogen Free	CL36AG	SMA	5,000	10,000	50,000

Notes : 1. For packaging details please reference our website at http://www.citcorp.com.tw/tchinese/products/index.php

■ SMA foot print



A	B	C
0.068 (1.70)	0.104 (2.60)	0.060 (1.50)

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